

Start	31362	End	31634
GI	none	Score	133
Exons	31362..31499, 31367..31498, 31506..31634		

Seq. No.	50458	Seq. ID	OJ990630_13.0421.C7
Gene No.	107119	Strand	-
Start	33886	End	35721
Name	OJ990630_13.0421.C7.o4.tw	Method	TBLASTX:Wheat
Start	32420	End	32860
GI	none	Score	77
Exons	32420..32551, 32431..32565, 32544..32708, 32552..32779, 32554..32718, 32774..32851, 32777..32860, 32785..32859		

Seq. No.	50458	Seq. ID	OJ990630_13.0421.C7
Gene No.	107119	Strand	-
Start	33886	End	35721
Name	OJ990630_13.0421.C7.o3.tm	Method	TBLASTX:Maize
Start	32852	End	33232
GI	none	Score	45
Exons	32852..32902, 32918..33232, 32929..33204		

Seq. No.	50458	Seq. ID	OJ990630_13.0421.C7
Gene No.	107119	Strand	-
Start	33886	End	35721
Name	OJ990630_13.0421.C7.o1.tw	Method	TBLASTX:Wheat
Start	32870	End	34187
GI	none	Score	47
Exons	32870..33055, 32874..32966, 32875..33255, 32876..33250, 33010..33255, 33464..33529, 33486..33656, 33514..33720, 33578..33730, 33601..33726, 33732..34013, 33733..34029, 33754..34077, 34050..34070, 34073..34111, 34077..34106, 34157..34183, 34158..34187		

Seq. No.	50458	Seq. ID	OJ990630_13.0421.C7
Gene No.	107119	Strand	-
Start	33886	End	35721
Name	OJ990630_13.0421.C7.o8.gs	Method	GENSCAN
Start	33886	End	35721
GI	none	Score	.41
Exons	33886..34085, 35471..35567, 35683..35721		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107120	Strand	+
Start	177	End	672
Name	OJ990630_13.0421.C8.o1.gs	Method	GENSCAN
Start	177	End	672
GI	none	Score	.88
Exons	177..672		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107121	Strand	+
Start	1776	End	3029
Name	OJ990630_13.0421.C8.o2.gs	Method	GENSCAN
Start	1776	End	3029
GI	none	Score	.43
Exons	1776..1824, 1916..2011, 2103..2180, 2272..2454, 2515..2880, 3019..3029		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107122	Strand	+
Start	3466	End	6649
Name	OJ990630_13.0421.C8.o3.gs	Method	GENSCAN
Start	3466	End	6649
GI	none	Score	.55
Exons	3466..3692, 4085..4192, 4460..4519, 6580..6649		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107122	Strand	+
Start	3466	End	6649
Name	OJ990630_13.0421.C8.o1.gp	Method	AAT/GAP
Start	4484	End	5082
GI	none	Score	810
Exons	4484..4519, 4602..4677, 4762..5082		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107123	Strand	+
Start	9311	End	18909
Name	OJ990630_13.0421.C8.o5.gs	Method	GENSCAN
Start	9311	End	18909
GI	none	Score	.59
Exons	9311..9603, 9841..10239, 10508..11455, 12003..12075, 12140..12238, 13424..13521, 13860..13952, 14480..15145, 15163..15367, 15450..15581, 15605..15884, 16044..16266, 16313..16594, 16698..17274, 17334..17548, 17575..17720, 17805..17958, 17989..18308, 18422..18569, 18876..18909		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107123	Strand	+
Start	9311	End	18909
Name	OJ990630_13.0421.C8.o1.np	Method	AAT/NAP
Start	14511	End	18756
GI	7228457	Score	3912
Exons	14511..15841, 15905..16729, 16852..18756		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107124	Strand	+
Start	21432	End	21681
Name	OJ990630_13.0421.C8.o2.gp	Method	AAT/GAP
Start	21432	End	21681
GI	LIB3475-004-P1-K2-A5	Score	432
Exons	21432..21681		
GI Descrip.	'5777612/emb AJ245900.1 OSA245900 1.0e-94 Oryza sativa chromosome 4 BAC q3037-207F1 complete genome'		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107125	Strand	-
Start	7379	End	7860
Name	OJ990630_13.0421.C8.o4.gs	Method	GENSCAN
Start	7379	End	7860
GI	none	Score	.92
Exons	7379..7617, 7728..7860		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o5.tw	Method	TBLASTX:Wheat
Start	9572	End	9973
GI	none	Score	179
Exons	9572..9808, 9632..9766, 9803..9973, 9856..9972		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o6.tw	Method	TBLASTX:Wheat
Start	15381	End	23685
GI	none	Score	147
Exons	15381..15611, 15604..15762, 15605..15805, 23542..23685		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o2.tw	Method	TBLASTX:Wheat
Start	15913	End	16342
GI	none	Score	138
Exons	15913..16041, 15914..16072, 16013..16342, 16042..16323		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o2.tm	Method	TBLASTX:Maize
Start	16031	End	16388
GI	none	Score	287
Exons	16031..16351, 16048..16320, 16085..16336, 16344..16388		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o3.tm	Method	TBLASTX:Maize
Start	16415	End	16800
GI	none	Score	157
Exons	16415..16594, 16416..16592, 16581..16655, 16582..16701, 16645..16689, 16690..16800		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o1.tw	Method	TBLASTX:Wheat
Start	16473	End	16875
GI	none	Score	127
Exons	16473..16592, 16478..16591, 16581..16661, 16582..16692, 16690..16875, 16713..16841		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o7.tw	Method	TBLASTX:Wheat
Start	17331	End	17542
GI	none	Score	202

Exons 17331..17525, 17331..17525, 17369..17542

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	17627	End	17950
GI	none	Score	334
Exons	17627..17950, 17740..17940		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o3.tw	Method	TBLASTX:Wheat
Start	17764	End	18145
GI	none	Score	361
Exons	17764..18111, 17765..18145		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o4.tw	Method	TBLASTX:Wheat
Start	18149	End	18744
GI	none	Score	104
Exons	18149..18298, 18150..18215, 18151..18249, 18301..18435, 18303..18389, 18413..18481, 18517..18591, 18621..18743, 18622..18744		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o2.np	Method	AAT/NAP
Start	19484	End	22847
GI	7228456	Score	1160
Exons	19484..20199, 20304..20435, 20571..22847		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o6.gs	Method	GENSCAN
Start	19502	End	23166
GI	none	Score	.7
Exons	19502..19669, 19849..19979, 20148..20288, 20336..20668, 20770..21175, 21717..21858, 22027..22165, 22203..22489, 22741..22906, 23121..23166		

Seq. No.	50459	Seq. ID	OJ990630_13.0421.C8
Gene No.	107126	Strand	-
Start	19502	End	23685
Name	OJ990630_13.0421.C8.o4.tm	Method	TBLASTX:Maize
Start	21334	End	21651
GI	none	Score	111
Exons	21334..21450, 21405..21533, 21417..21536, 21472..21549, 21521..21637, 21522..21650, 21529..21651, 21529..21651		

Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
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Gene No.	107127	Strand	+
Start	1207	End	1587
Name	OJ990630_13.0421.C9.o1.gp	Method	AAT/GAP
Start	1207	End	1587
GI	uC-osflcyp033a04b1	Score	654
Exons	1207..1587		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107128	Strand	-
Start	1137	End	6189
Name	OJ990630_13.0421.C9.o1.gs	Method	GENSCAN
Start	1137	End	2557
GI	none	Score	.85
Exons	1137..1339, 1436..1489, 2431..2557		

Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107128	Strand	-
Start	1137	End	6189
Name	OJ990630_13.0421.C9.o1.np	Method	AAT/NAP
Start	1140	End	6189
GI	4680186	Score	368
Exons	1140..1339, 2179..2238, 6164..6189		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107128	Strand	-
Start	1137	End	6189
Name	OJ990630_13.0421.C9.o2.np	Method	AAT/NAP
Start	2439	End	2985
GI	6539585	Score	158
Exons	2439..2512, 2812..2985		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107129	Strand	-
Start	6224	End	8662
Name	OJ990630_13.0421.C9.o3.np	Method	AAT/NAP
Start	6182	End	8186
GI	6735317	Score	586
Exons	6182..7359, 8006..8186		
GI Descrip.	(AL137080) putative protein [Arabidopsis thaliana]		

Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107129	Strand	-
Start	6224	End	8662
Name	OJ990630_13.0421.C9.o2.gs	Method	GENSCAN
Start	6224	End	8662
GI	none	Score	.92
Exons	6224..7389, 7604..7669, 7792..7923, 8078..8164, 8254..8662		

Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107130	Strand	-
Start	9239	End	11024
Name	OJ990630_13.0421.C9.o2.tw	Method	TBLASTX:Wheat
Start	6224	End	6401

GI	none	Score	159
Exons	6224..6400, 6240..6401, 6243..6401		
Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107130	Strand	-
Start	9239	End	11024
Name	OJ990630_13.0421.C9.o2.tc	Method	TBLASTX:Cress
Start	6239	End	6592
GI	none	Score	61
Exons	6239..6490, 6486..6581, 6491..6592		
Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107130	Strand	-
Start	9239	End	11024
Name	OJ990630_13.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	6278	End	6580
GI	none	Score	363
Exons	6278..6580, 6279..6572		
Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107130	Strand	-
Start	9239	End	11024
Name	OJ990630_13.0421.C9.o3.tw	Method	TBLASTX:Wheat
Start	6419	End	6649
GI	none	Score	110
Exons	6419..6649, 6483..6605, 6500..6649		
Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107130	Strand	-
Start	9239	End	11024
Name	OJ990630_13.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	6491	End	7144
GI	none	Score	66
Exons	6491..6703, 6491..6754, 6788..7144, 6849..7127		
Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107130	Strand	-
Start	9239	End	11024
Name	OJ990630_13.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	6626	End	7172
GI	none	Score	146
Exons	6626..6739, 6626..6739, 6719..7171, 6738..7172		
Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107130	Strand	-
Start	9239	End	11024
Name	OJ990630_13.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	6785	End	7336
GI	none	Score	190
Exons	6785..7144, 6786..7148, 7169..7336		
Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107130	Strand	-
Start	9239	End	11024
Name	OJ990630_13.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	7169	End	7867
GI	none	Score	165

Exons 7169..7390, 7170..7349, 7178..7351, 7787..7867

Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107130	Strand	-
Start	9239	End	11024
Name	OJ990630_13.0421.C9.o3.tm	Method	TBLASTX:Maize
Start	7172	End	8638
GI	none	Score	84
Exons	7172..7261, 7173..7256, 7175..7258, 7216..7362, 7246..7362, 7253..7366, 7253..7363, 7801..7827, 7814..7873, 7822..7860, 8069..8164, 8279..8416, 8319..8408, 8351..8416, 8519..8542, 8532..8585, 8603..8638		

Seq. No.	50460	Seq. ID	OJ990630_13.0421.C9
Gene No.	107130	Strand	-
Start	9239	End	11024
Name	OJ990630_13.0421.C9.o3.gs	Method	GENSCAN
Start	9239	End	11024
GI	none	Score	.59
Exons	9239..9281, 9678..9868, 10082..10122, 10754..10841, 10940..11024		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107131	Strand	+
Start	178	End	1882
Name	OJ990630_13.0421.C10.o1.gp	Method	AAT/GAP
Start	178	End	424
GI	uC-osflcyp033a04b1	Score	419
Exons	178..424		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107131	Strand	+
Start	178	End	1882
Name	OJ990630_13.0421.C10.o1.gs	Method	GENSCAN
Start	302	End	1882
GI	none	Score	.82
Exons	302..346, 713..826, 1172..1327, 1455..1530, 1536..1882		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107132	Strand	+
Start	4125	End	5018
Name	OJ990630_13.0421.C10.o2.np	Method	AAT/NAP
Start	4125	End	5018
GI	5042448	Score	1324
Exons	4125..4694, 4731..5018		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107133	Strand	+
Start	5271	End	9669
Name	OJ990630_13.0421.C10.o3.np	Method	AAT/NAP
Start	5271	End	9669
GI	4680179	Score	7349
Exons	5271..9669		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107134	Strand	-
Start	111	End	2055
Name	OJ990630_13.0421.C10.o1.np	Method	AAT/NAP
Start	111	End	2055
GI	4680186	Score	334
Exons	111..311, 2021..2055		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107135	Strand	
Start	5531	End	6107
Name	OJ990630_13.0421.C10.o6.tw	Method	TBLASTX:Wheat
Start	5531	End	5894
GI	none	Score	296
Exons	5531..5893, 5535..5894		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107135	Strand	
Start	5531	End	6107
Name	OJ990630_13.0421.C10.o6.tm	Method	TBLASTX:Maize
Start	5775	End	6107
GI	none	Score	212
Exons	5775..6107, 5775..6059, 5792..5962		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107136	Strand	
Start	6411	End	6836
Name	OJ990630_13.0421.C10.o7.tm	Method	TBLASTX:Maize
Start	6411	End	6731
GI	none	Score	189
Exons	6411..6731, 6464..6556		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107136	Strand	
Start	6411	End	6836
Name	OJ990630_13.0421.C10.o7.tw	Method	TBLASTX:Wheat
Start	6414	End	6836
GI	none	Score	159
Exons	6414..6623, 6417..6530, 6464..6562, 6645..6836, 6674..6835		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107137	Strand	
Start	6989	End	7862
Name	OJ990630_13.0421.C10.o4.tw	Method	TBLASTX:Wheat
Start	6989	End	7475
GI	none	Score	539
Exons	6989..7294, 6993..7475, 7104..7466		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107137	Strand	
Start	6989	End	7862
Name	OJ990630_13.0421.C10.o5.tm	Method	TBLASTX:Maize
Start	7005	End	7294
GI	none	Score	316
Exons	7005..7292, 7103..7294		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107137	Strand	
Start	6989	End	7862
Name	OJ990630_13.0421.C10.o3.tm	Method	TBLASTX:Maize
Start	7362	End	7862
GI	none	Score	161
Exons	7362..7541, 7527..7862, 7613..7744, 7769..7819		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107137	Strand	
Start	6989	End	7862
Name	OJ990630_13.0421.C10.o1.ts	Method	TBLASTX:Soybean
Start	7416	End	7811
GI	none	Score	53
Exons	7416..7448, 7416..7460, 7452..7811, 7452..7532, 7547..7810		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107137	Strand	
Start	6989	End	7862
Name	OJ990630_13.0421.C10.o5.tw	Method	TBLASTX:Wheat
Start	7524	End	7826
GI	none	Score	401
Exons	7524..7826, 7525..7626, 7544..7825		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107138	Strand	
Start	7827	End	8336
Name	OJ990630_13.0421.C10.o2.tw	Method	TBLASTX:Wheat
Start	7827	End	8336
GI	none	Score	635
Exons	7827..8336, 7859..8170, 7905..8252		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107138	Strand	
Start	7827	End	8336
Name	OJ990630_13.0421.C10.o3.ts	Method	TBLASTX:Soybean
Start	7833	End	8078
GI	none	Score	201
Exons	7833..8078		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107138	Strand	
Start	7827	End	8336
Name	OJ990630_13.0421.C10.o2.tm	Method	TBLASTX:Maize
Start	7899	End	8264
GI	none	Score	491
Exons	7899..8252, 7901..8167, 7953..8264, 8060..8257		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107139	Strand	
Start	8340	End	9668
Name	OJ990630_13.0421.C10.o3.tw	Method	TBLASTX:Wheat
Start	8340	End	8819
GI	none	Score	586
Exons	8340..8819, 8373..8786, 8411..8818		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107139	Strand	
Start	8340	End	9668
Name	OJ990630_13.0421.C10.o1.tc	Method	TBLASTX:Cress
Start	8526	End	8843
GI	none	Score	86
Exons	8526..8699, 8700..8843, 8702..8842		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107139	Strand	
Start	8340	End	9668
Name	OJ990630_13.0421.C10.o2.ts	Method	TBLASTX:Soybean
Start	8607	End	8867
GI	none	Score	302
Exons	8607..8867, 8612..8866		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107139	Strand	
Start	8340	End	9668
Name	OJ990630_13.0421.C10.o4.tm	Method	TBLASTX:Maize
Start	8666	End	8957
GI	none	Score	390
Exons	8666..8953, 8667..8957		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107139	Strand	
Start	8340	End	9668
Name	OJ990630_13.0421.C10.o1.tw	Method	TBLASTX:Wheat
Start	8826	End	9452
GI	none	Score	717
Exons	8826..9452, 8828..9451		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107139	Strand	
Start	8340	End	9668
Name	OJ990630_13.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	9006	End	9605
GI	none	Score	222
Exons	9006..9167, 9014..9160, 9165..9605, 9167..9592		

Seq. No.	50461	Seq. ID	OJ990630_13.0421.C10
Gene No.	107139	Strand	
Start	8340	End	9668
Name	OJ990630_13.0421.C10.o8.tw	Method	TBLASTX:Wheat
Start	9456	End	9668
GI	none	Score	243
Exons	9456..9668, 9480..9560, 9545..9667		

Seq. No.	50462	Seq. ID	OJ990630_13.0421.C14
Gene No.	107140	Strand	+
Start	445	End	4859
Name	OJ990630_13.0421.C14.o1.gs	Method	GENSCAN
Start	445	End	1256
GI	none	Score	.74
Exons	445..805, 820..1256		

Seq. No.	50462	Seq. ID	OJ990630_13.0421.C14
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Gene No.	107140	Strand	+
Start	445	End	4859
Name	OJ990630_13.0421.C14.o1.np	Method	AAT/NAP
Start	447	End	2260
GI	6983858	Score	129
Exons	447..1016, 2234..2260		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		

Seq. No.	50462	Seq. ID	OJ990630_13.0421.C14
Gene No.	107140	Strand	+
Start	445	End	4859
Name	OJ990630_13.0421.C14.o1.gp	Method	AAT/GAP
Start	720	End	1176
GI	95437_1.R1084	Score	640
Exons	720..1176		
GI Descrip.	'4512226/dbj AB014738.1 AB014738 1.0e-134 Oryza sativa gypsy-type retrotransposon RIRE3 DNA, internal region, complete sequence'		

Seq. No.	50462	Seq. ID	OJ990630_13.0421.C14
Gene No.	107140	Strand	+
Start	445	End	4859
Name	OJ990630_13.0421.C14.o2.np	Method	AAT/NAP
Start	1502	End	4859
GI	4680179	Score	3609
Exons	1502..2590, 2624..4859		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	50462	Seq. ID	OJ990630_13.0421.C14
Gene No.	107140	Strand	+
Start	445	End	4859
Name	OJ990630_13.0421.C14.o2.gs	Method	GENSCAN
Start	1539	End	4815
GI	none	Score	.5
Exons	1539..1877, 1937..4815		

Seq. No.	50462	Seq. ID	OJ990630_13.0421.C14
Gene No.	107140	Strand	+
Start	445	End	4859
Name	OJ990630_13.0421.C14.o5.tw	Method	TBLASTX:Wheat
Start	1984	End	2335
GI	none	Score	286
Exons	1984..2178, 1985..2335		

Seq. No.	50462	Seq. ID	OJ990630_13.0421.C14
Gene No.	107140	Strand	+
Start	445	End	4859
Name	OJ990630_13.0421.C14.o4.tm	Method	TBLASTX:Maize
Start	1985	End	2290
GI	none	Score	229
Exons	1985..2290, 1999..2115		

Seq. No.	50462	Seq. ID	OJ990630_13.0421.C14
Gene No.	107140	Strand	+
Start	445	End	4859
Name	OJ990630_13.0421.C14.o5.tm	Method	TBLASTX:Maize

Start 2645
GI none
Exons 2645..2968

End 2968
Score 183

Seq. No. 50462 Seq. ID OJ990630_13.0421.C14
Gene No. 107140 Strand +
Start 445 End 4859
Name OJ990630_13.0421.C14.o6.tw Method TBLASTX:Wheat
Start 2651 End 3019
GI none Score 164
Exons 2651..2860, 2707..2859, 2905..3018, 2906..3019

Seq. No. 50462 Seq. ID OJ990630_13.0421.C14
Gene No. 107140 Strand +
Start 445 End 4859
Name OJ990630_13.0421.C14.o2.tw Method TBLASTX:Wheat
Start 3184 End 3670
GI none Score 52
Exons 3184..3627, 3188..3238, 3293..3670

Seq. No. 50462 Seq. ID OJ990630_13.0421.C14
Gene No. 107140 Strand +
Start 445 End 4859
Name OJ990630_13.0421.C14.o3.tm Method TBLASTX:Maize
Start 3199 End 3489
GI none Score 276
Exons 3199..3489, 3200..3487

Seq. No. 50462 Seq. ID OJ990630_13.0421.C14
Gene No. 107140 Strand +
Start 445 End 4859
Name OJ990630_13.0421.C14.o2.tm Method TBLASTX:Maize
Start 3557 End 4057
GI none Score 171
Exons 3557..3736, 3565..3684, 3743..4057, 3808..3936

Seq. No. 50462 Seq. ID OJ990630_13.0421.C14
Gene No. 107140 Strand +
Start 445 End 4859
Name OJ990630_13.0421.C14.o1.ts Method TBLASTX:Soybean
Start 3611 End 4006
GI none Score 57
Exons 3611..3643, 3613..3642, 3647..4006, 3647..4006

Seq. No. 50462 Seq. ID OJ990630_13.0421.C14
Gene No. 107140 Strand +
Start 445 End 4859
Name OJ990630_13.0421.C14.o4.tw Method TBLASTX:Wheat
Start 3719 End 4021
GI none Score 373
Exons 3719..4021, 3730..4005

Seq. No. 50462 Seq. ID OJ990630_13.0421.C14
Gene No. 107140 Strand +
Start 445 End 4859
Name OJ990630_13.0421.C14.o1.tw Method TBLASTX:Wheat
Start 4022 End 4525

GI	none	Score	628
Exons	4022..4525, 4054..4518		
Seq. No.	50462	Seq. ID	OJ990630_13.0421.C14
Gene No.	107140	Strand	+
Start	445	End	4859
Name	OJ990630_13.0421.C14.o2.ts	Method	TBLASTX:Soybean
Start	4028	End	4273
GI	none	Score	206
Exons	4028..4273, 4045..4173		
Seq. No.	50462	Seq. ID	OJ990630_13.0421.C14
Gene No.	107140	Strand	+
Start	445	End	4859
Name	OJ990630_13.0421.C14.o1.tm	Method	TBLASTX:Maize
Start	4093	End	4456
GI	none	Score	482
Exons	4093..4443, 4094..4447, 4094..4456		
Seq. No.	50462	Seq. ID	OJ990630_13.0421.C14
Gene No.	107140	Strand	+
Start	445	End	4859
Name	OJ990630_13.0421.C14.o3.tw	Method	TBLASTX:Wheat
Start	4526	End	4858
GI	none	Score	374
Exons	4526..4858, 4534..4854		
Seq. No.	50463	Seq. ID	OJ990630_13.0421.C15
Gene No.	107141	Strand	+
Start	1	End	756
Name	OJ990630_13.0421.C15.o1.np	Method	AAT/NAP
Start	1	End	753
GI	6983860	Score	1077
Exons	1..753		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		
Seq. No.	50463	Seq. ID	OJ990630_13.0421.C15
Gene No.	107141	Strand	+
Start	1	End	756
Name	OJ990630_13.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	1	End	513
GI	none	Score	104
Exons	1..90, 12..83, 88..513, 90..512		
Seq. No.	50463	Seq. ID	OJ990630_13.0421.C15
Gene No.	107141	Strand	+
Start	1	End	756
Name	OJ990630_13.0421.C15.o2.tw	Method	TBLASTX:Wheat
Start	1	End	282
GI	none	Score	298
Exons	1..282, 3..278		
Seq. No.	50463	Seq. ID	OJ990630_13.0421.C15
Gene No.	107141	Strand	+
Start	1	End	756
Name	OJ990630_13.0421.C15.o1.gs	Method	GENSCAN

Start 103
GI none
Exons 103..462, 523..756

End 756
Score .7

Seq. No. 50463
Gene No. 107141
Start 1
Name OJ990630_13.0421.C15.o1.tw
Start 286
GI none
Exons 286..708, 319..504, 321..644

Seq. ID OJ990630_13.0421.C15
Strand +
End 756
Method TBLASTX:Wheat
End 708
Score 406

Seq. No. 50464
Gene No. 107142
Start 255
Name OJ990630_13.0421.C16.o1.np
Start 255
GI 4680203
Exons 255..539, 697..726
GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. ID OJ990630_13.0421.C16
Strand -
End 726
Method AAT/NAP
End 726
Score 202

Seq. No. 50464
Gene No. 107142
Start 255
Name OJ990630_13.0421.C16.o1.gs
Start 291
GI none
Exons 291..503

Seq. ID OJ990630_13.0421.C16
Strand -
End 726
Method GENSCAN
End 503
Score .91

Seq. No. 50465
Gene No. 107143
Start 1
Name OJ990730_14.0419.C1.o1.np
Start 1
GI 6979336
Exons 1..221, 402..557, 638..827, 1025..1080
GI Descrip. (AF172282) hypothetical protein [Oryza sativa]

Seq. ID OJ990730_14.0419.C1
Strand +
End 1080
Method AAT/NAP
End 1080
Score 892

Seq. No. 50465
Gene No. 107143
Start 1
Name OJ990730_14.0419.C1.o1.gs
Start 15
GI none
Exons 15..221, 638..827

Seq. ID OJ990730_14.0419.C1
Strand +
End 1080
Method GENSCAN
End 827
Score .94

Seq. No. 50466
Gene No. 107144
Start 863
Name OJ990730_14.0419.C4.o1.np
Start 863
GI 6979334
Exons 863..1019, 1092..1246, 1351..1416
GI Descrip. (AF172282) unknown protein [Oryza sativa]

Seq. ID OJ990730_14.0419.C4
Strand +
End 1416
Method AAT/NAP
End 1416
Score 95

Seq. No. 50466
Gene No. 107144

Seq. ID OJ990730_14.0419.C4
Strand +

Start	863	End	1416
Name	OJ990730_14.0419.C4.o2.np	Method	AAT/NAP
Start	1100	End	1347
GI	6979338	Score	241
Exons	1100..1347		
GI Descrip.	(AF172282) hypothetical protein [Oryza sativa]		

Seq. No.	50466	Seq. ID	OJ990730_14.0419.C4
Gene No.	107144	Strand	+
Start	863	End	1416
Name	OJ990730_14.0419.C4.o1.gs	Method	GENSCAN
Start	1121	End	1283
GI	none	Score	.44
Exons	1121..1283		

Seq. No.	50467	Seq. ID	OJ990730_14.0419.C6
Gene No.	107145	Strand	+
Start	350	End	951
Name	OJ990730_14.0419.C6.o1.gs	Method	GENSCAN
Start	350	End	951
GI	none	Score	.62
Exons	350..473, 778..951		

Seq. No.	50467	Seq. ID	OJ990730_14.0419.C6
Gene No.	107146	Strand	-
Start	899	End	1314
Name	OJ990730_14.0419.C6.o1.np	Method	AAT/NAP
Start	899	End	1314
GI	4234854	Score	448
Exons	899..1314		
GI Descrip.	(AF082134) pol polyprotein [Zea mays]		

Seq. No.	50467	Seq. ID	OJ990730_14.0419.C6
Gene No.	107146	Strand	-
Start	899	End	1314
Name	OJ990730_14.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	950	End	1314
GI	none	Score	42
Exons	950..1165, 951..1067, 1173..1313, 1174..1314		

Seq. No.	50468	Seq. ID	OJ990730_14.0419.C7
Gene No.	107147	Strand	-
Start	1	End	1586
Name	OJ990730_14.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	1476
GI	4234846	Score	738
Exons	1..1265, 1299..1476		
GI Descrip.	(AF082130) gag-pol polyprotein [Zea mays]		

Seq. No.	50468	Seq. ID	OJ990730_14.0419.C7
Gene No.	107147	Strand	-
Start	1	End	1586
Name	OJ990730_14.0419.C7.o1.gp	Method	AAT/GAP
Start	275	End	842
GI	uC-osflcyp006a10b1	Score	812
Exons	275..523, 631..842		
GI Descrip.	'4234846 7.0e-13 (AF082130) gag-pol polyprotein [Zea mays]'		

Seq. No.	50468	Seq. ID	OJ990730_14.0419.C7
Gene No.	107147	Strand	-
Start	1	End	1586
Name	OJ990730_14.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	386	End	1382
GI	none	Score	71
Exons	386..526, 465..527, 804..1382, 810..1058, 814..1260		

Seq. No.	50468	Seq. ID	OJ990730_14.0419.C7
Gene No.	107147	Strand	-
Start	1	End	1586
Name	OJ990730_14.0419.C7.o1.gs	Method	GENSCAN
Start	660	End	1484
GI	none	Score	.82
Exons	660..1345, 1380..1484		

Seq. No.	50468	Seq. ID	OJ990730_14.0419.C7
Gene No.	107147	Strand	-
Start	1	End	1586
Name	OJ990730_14.0419.C7.o2.gp	Method	AAT/GAP
Start	1074	End	1586
GI	uC-osflm202052c07b1	Score	.992
Exons	1074..1586		
GI Descrip.	'4234848 1.0e-12 (AF082131) gag-pol polyprotein [Zea mays]'		

Seq. No.	50469	Seq. ID	OJ990730_14.0419.C8
Gene No.	107148	Strand	-
Start	1	End	979
Name	OJ990730_14.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	979
GI	6979337	Score	580
Exons	1..979		
GI Descrip.	(AF172282) hypothetical protein [Oryza sativa]		

Seq. No.	50470	Seq. ID	OJ990730_14.0419.C9
Gene No.	107149	Strand	+
Start	327	End	1201
Name	OJ990730_14.0419.C9.o1.gs	Method	GENSCAN
Start	327	End	1201
GI	none	Score	.48
Exons	327..589, 819..924, 1006..1201		

Seq. No.	50471	Seq. ID	OJ990730_14.0419.C10
Gene No.	107150	Strand	+
Start	31	End	960
Name	OJ990730_14.0419.C10.o1.gs	Method	GENSCAN
Start	31	End	960
GI	none	Score	.69
Exons	31..237, 326..439, 750..960		

Seq. No.	50472	Seq. ID	OJ990730_14.0419.C12
Gene No.	107151	Strand	-
Start	61	End	1018
Name	OJ990730_14.0419.C12.o1.gs	Method	GENSCAN
Start	61	End	1018
GI	none	Score	.72

Exons 61..169, 755..775, 978..1018

Seq. No.	50473	Seq. ID	OJ990730_14.0419.C13
Gene No.	107152	Strand	-
Start	852	End	1019
Name	OJ990730_14.0419.C13.o1.gs	Method	GENSCAN
Start	852	End	1019
GI	none	Score	.79
Exons	852..1019		

Seq. No.	50474	Seq. ID	OJ990730_14.0419.C14
Gene No.	107153	Strand	+
Start	11	End	271
Name	OJ990730_14.0419.C14.o1.gs	Method	GENSCAN
Start	11	End	271
GI	none	Score	.64
Exons	11..271		

Seq. No.	50475	Seq. ID	OJ990730_14.0419.C16
Gene No.	107154	Strand	+
Start	273	End	1429
Name	OJ990730_14.0419.C16.o1.gp	Method	AAT/GAP
Start	273	End	516
GI	700303	Score	389
Exons	273..516		

Seq. No.	50475	Seq. ID	OJ990730_14.0419.C16
Gene No.	107154	Strand	+
Start	273	End	1429
Name	OJ990730_14.0419.C16.o1.np	Method	AAT/NAP
Start	273	End	1429
GI	6979343	Score	1072
Exons	273..771, 877..964, 1052..1114, 1387..1429		
GI Descrip.	(AF172282) similar to mitogen-activated protein kinases [<i>Oryza sativa</i>]		

Seq. No.	50475	Seq. ID	OJ990730_14.0419.C16
Gene No.	107154	Strand	+
Start	273	End	1429
Name	OJ990730_14.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	388	End	669
GI	none	Score	207
Exons	388..546, 389..547, 553..669, 562..627		

Seq. No.	50475	Seq. ID	OJ990730_14.0419.C16
Gene No.	107154	Strand	+
Start	273	End	1429
Name	OJ990730_14.0419.C16.o2.gp	Method	AAT/GAP
Start	668	End	1429
GI	LIB3433-013-Q6-K1-D8	Score	485
Exons	668..771, 877..964, 1052..1114, 1387..1429		
GI Descrip.	'3688191/emb CAA08994.1 6.0e-41 (AJ010090) MAP3K alpha protein kinase [<i>Arabidopsis thaliana</i>]'		

Seq. No.	50475	Seq. ID	OJ990730_14.0419.C16
Gene No.	107154	Strand	+
Start	273	End	1429

Name	OJ990730_14.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	703	End	1141
GI	none	Score	47
Exons	703..756, 710..769, 856..969, 874..969, 875..982, 875..970, 1049..1141, 1051..1110		

Seq. No.	50475	Seq. ID	OJ990730_14.0419.C16
Gene No.	107154	Strand	+
Start	273	End	1429
Name	OJ990730_14.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	705	End	1141
GI	none	Score	110
Exons	705..770, 707..769, 875..979, 875..970, 1049..1141, 1049..1123		

Seq. No.	50475	Seq. ID	OJ990730_14.0419.C16
Gene No.	107154	Strand	+
Start	273	End	1429
Name	OJ990730_14.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	875	End	1141
GI	none	Score	134
Exons	875..982, 883..957, 1049..1141, 1051..1140		

Seq. No.	50476	Seq. ID	OJ990730_14.0419.C17
Gene No.	107155	Strand	-
Start	138	End	1034
Name	OJ990730_14.0419.C17.o1.gp	Method	AAT/GAP
Start	138	End	507
GI	286532	Score	724
Exons	138..507		

Seq. No.	50476	Seq. ID	OJ990730_14.0419.C17
Gene No.	107155	Strand	-
Start	138	End	1034
Name	OJ990730_14.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	140	End	474
GI	none	Score	126
Exons	140..265, 147..269, 152..253, 346..474, 347..472		

Seq. No.	50476	Seq. ID	OJ990730_14.0419.C17
Gene No.	107155	Strand	-
Start	138	End	1034
Name	OJ990730_14.0419.C17.o1.np	Method	AAT/NAP
Start	155	End	1034
GI	6979342	Score	1486
Exons	155..1034		
GI Descrip.	(AF172282) unknown protein [Oryza sativa]		

Seq. No.	50476	Seq. ID	OJ990730_14.0419.C17
Gene No.	107155	Strand	-
Start	138	End	1034
Name	OJ990730_14.0419.C17.o1.gs	Method	GENSCAN
Start	247	End	902
GI	none	Score	.94
Exons	247..902		

Seq. No.	50477	Seq. ID	OJ990730_14.0419.C18
Gene No.	107156	Strand	-

Start	187	End	1516
Name	OJ990730_14.0419.C18.o1.gs	Method	GENSCAN
Start	187	End	1516
GI	none	Score	.75
Exons	187..332, 619..804, 1162..1516		

Seq. No.	50478	Seq. ID	OJ990730_14.0419.C19
Gene No.	107157	Strand	-
Start	1	End	739
Name	OJ990730_14.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	739
GI	6979337	Score	1219
Exons	1..739		
GI Descrip.	(AF172282) hypothetical protein [Oryza sativa]		

Seq. No.	50478	Seq. ID	OJ990730_14.0419.C19
Gene No.	107157	Strand	-
Start	1	End	739
Name	OJ990730_14.0419.C19.o1.gs	Method	GENSCAN
Start	37	End	739
GI	none	Score	.67
Exons	37..739		

Seq. No.	50479	Seq. ID	OJ990730_14.0419.C21
Gene No.	107158	Strand	+
Start	199	End	2709
Name	OJ990730_14.0419.C21.o1.gs	Method	GENSCAN
Start	199	End	2709
GI	none	Score	.94
Exons	199..229, 943..1006, 2357..2576, 2644..2709		

Seq. No.	50479	Seq. ID	OJ990730_14.0419.C21
Gene No.	107159	Strand	+
Start	2879	End	3298
Name	OJ990730_14.0419.C21.o1.gp	Method	AAT/GAP
Start	2879	End	3298
GI	none	Score	148
Exons	2879..2912, 2957..3060, 3269..3298		

Seq. No.	50479	Seq. ID	OJ990730_14.0419.C21
Gene No.	107160	Strand	+
Start	4688	End	5977
Name	OJ990730_14.0419.C21.o1.np	Method	AAT/NAP
Start	4688	End	5977
GI	7488706	Score	975
Exons	4688..5977		
GI Descrip.	probable transposase - soybean transposon mariner element Soymar1 gi 3386534 gb AAC28384.1 (AF078934) mariner transposase [Glycine max]		

Seq. No.	50479	Seq. ID	OJ990730_14.0419.C21
Gene No.	107161	Strand	+
Start	6575	End	6656
Name	OJ990730_14.0419.C21.o2.gp	Method	AAT/GAP
Start	6575	End	6656
GI	LIB3433-009-Q6-K1-F10	Score	83
Exons	6575..6656		

GI Descrip. '6015437/dbj|AB008112.1|AB008112 9.0e-11 Homo sapiens PEX1 mRNA, complete cds'

Seq. No.	50479	Seq. ID	OJ990730_14.0419.C21
Gene No.	107162	Strand	-
Start	7161	End	9702
Name	OJ990730_14.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	5480	End	5775
GI	none	Score	229
Exons	5480..5761, 5557..5775		

Seq. No.	50479	Seq. ID	OJ990730_14.0419.C21
Gene No.	107162	Strand	-
Start	7161	End	9702
Name	OJ990730_14.0419.C21.o3.gs	Method	GENSCAN
Start	7161	End	9702
GI	none	Score	.94
Exons	7161..7547, 8842..9702		

Seq. No.	50479	Seq. ID	OJ990730_14.0419.C21
Gene No.	107162	Strand	-
Start	7161	End	9702
Name	OJ990730_14.0419.C21.o2.np	Method	AAT/NAP
Start	7955	End	9702
GI	6979338	Score	1963
Exons	7955..8212, 8842..9702		
GI Descrip.	(AF172282) hypothetical protein [Oryza sativa]		

Seq. No.	50480	Seq. ID	OJ990730_14.0419.C22
Gene No.	107163	Strand	-
Start	1752	End	3225
Name	OJ990730_14.0419.C22.o1.gs	Method	GENSCAN
Start	1752	End	3034
GI	none	Score	.76
Exons	1752..1931, 2073..2195, 2878..3034		

Seq. No.	50480	Seq. ID	OJ990730_14.0419.C22
Gene No.	107163	Strand	-
Start	1752	End	3225
Name	OJ990730_14.0419.C22.o1.np	Method	AAT/NAP
Start	1755	End	3225
GI	6979339	Score	1318
Exons	1755..1931, 2073..2195, 2309..2547, 2878..3225		
GI Descrip.	(AF172282) hypothetical protein, similar to flavin-containing monooxygenases [Oryza sativa]		

Seq. No.	50480	Seq. ID	OJ990730_14.0419.C22
Gene No.	107163	Strand	-
Start	1752	End	3225
Name	OJ990730_14.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	1776	End	2976
GI	none	Score	102
Exons	1776..1937, 1783..1929, 1841..1939, 2073..2183, 2303..2431, 2875..2976, 2876..2971		

Seq. No.	50481	Seq. ID	OJ990730_14.0419.C23
Gene No.	107164	Strand	-

Start	1	End	261
Name	OJ990730_14.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	260
GI	6979339	Score	436
Exons	1..260		
GI Descrip.	(AF172282) hypothetical protein, similar to flavin-containing monooxygenases [Oryza sativa]		

Seq. No.	50481	Seq. ID	OJ990730_14.0419.C23
Gene No.	107164	Strand	-
Start	1	End	261
Name	OJ990730_14.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	1	End	261
GI	none	Score	55
Exons	1..78, 3..260, 127..228, 178..261		

Seq. No.	50481	Seq. ID	OJ990730_14.0419.C23
Gene No.	107164	Strand	-
Start	1	End	261
Name	OJ990730_14.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	3	End	248
GI	none	Score	253
Exons	3..248		

Seq. No.	50481	Seq. ID	OJ990730_14.0419.C23
Gene No.	107164	Strand	-
Start	1	End	261
Name	OJ990730_14.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	51	End	233
GI	none	Score	83
Exons	51..233, 130..231		

Seq. No.	50482	Seq. ID	OJ990730_14.0419.C26
Gene No.	107165	Strand	+
Start	345	End	669
Name	OJ990730_14.0419.C26.o1.gs	Method	GENSCAN
Start	345	End	669
GI	none	Score	.99
Exons	345..417, 482..669		

Seq. No.	50483	Seq. ID	OJ990730_14.0419.C27
Gene No.	107166	Strand	-
Start	305	End	1066
Name	OJ990730_14.0419.C27.o1.gp	Method	AAT/GAP
Start	305	End	737
GI	3768334	Score	749
Exons	305..737		

Seq. No.	50483	Seq. ID	OJ990730_14.0419.C27
Gene No.	107166	Strand	-
Start	305	End	1066
Name	OJ990730_14.0419.C27.o1.gs	Method	GENSCAN
Start	603	End	1019
GI	none	Score	.79
Exons	603..1019		

Seq. No.	50483	Seq. ID	OJ990730_14.0419.C27
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Gene No.	107166	Strand	-
Start	305	End	1066
Name	OJ990730_14.0419.C27.o1.np	Method	AAT/NAP
Start	606	End	1066
GI	6979341	Score	749
Exons	606..1066		
GI Descrip.	(AF172282) myb-like protein [Oryza sativa]		

Seq. No.	50484	Seq. ID	OJ990730_14.0419.C28
Gene No.	107167	Strand	-
Start	1	End	1460
Name	OJ990730_14.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	1234
GI	6979341	Score	289
Exons	1..26, 1030..1234		
GI Descrip.	(AF172282) myb-like protein [Oryza sativa]		

Seq. No.	50484	Seq. ID	OJ990730_14.0419.C28
Gene No.	107167	Strand	-
Start	1	End	1460
Name	OJ990730_14.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	1031	End	1276
GI	none	Score	112
Exons	1031..1165, 1038..1163, 1054..1164, 1190..1276, 1191..1274		

Seq. No.	50484	Seq. ID	OJ990730_14.0419.C28
Gene No.	107167	Strand	-
Start	1	End	1460
Name	OJ990730_14.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	1031	End	1165
GI	none	Score	85
Exons	1031..1165, 1038..1163		

Seq. No.	50484	Seq. ID	OJ990730_14.0419.C28
Gene No.	107167	Strand	-
Start	1	End	1460
Name	OJ990730_14.0419.C28.o1.gp	Method	AAT/GAP
Start	1032	End	1460
GI	3768333	Score	755
Exons	1032..1460		

Seq. No.	50484	Seq. ID	OJ990730_14.0419.C28
Gene No.	107167	Strand	-
Start	1	End	1460
Name	OJ990730_14.0419.C28.o1.gs	Method	GENSCAN
Start	1054	End	1234
GI	none	Score	.58
Exons	1054..1234		

Seq. No.	50485	Seq. ID	OJ990730_14.0419.C29
Gene No.	107168	Strand	-
Start	591	End	2216
Name	OJ990730_14.0419.C29.o1.gp	Method	AAT/GAP
Start	591	End	2216
GI	LIB3477-003-P1-K1-E9	Score	107
Exons	591..640, 2165..2216		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY		

S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	50486	Seq. ID	OJ990730_14.0419.C37
Gene No.	107169	Strand	+
Start	645	End	943
Name	OJ990730_14.0419.C37.o1.gs	Method	GENSCAN
Start	645	End	943
GI	none	Score	.84
Exons	645..943		

Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o1.gs	Method	GENSCAN
Start	913	End	8442
GI	none	Score	.53
Exons	913..958, 1345..1441, 1523..1606, 1698..1809, 2777..4969, 5040..5321, 5607..5742, 5842..7247, 8215..8321, 8382..8442		

Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o6.tm	Method	TBLASTX:Maize
Start	2634	End	2878
GI	none	Score	41
Exons	2634..2696, 2666..2878, 2757..2846		

Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o1.np	Method	AAT/NAP
Start	2642	End	7250
GI	4680179	Score	6388
Exons	2642..7250		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o6.tw	Method	TBLASTX:Wheat
Start	2687	End	3020
GI	none	Score	109
Exons	2687..3019, 2751..3020		

Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	2879	End	3466
GI	none	Score	124
Exons	2879..3148, 2880..3092, 3209..3307, 3210..3305, 3239..3307, 3305..3466, 3312..3458, 3314..3460		

Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442

Name	OJ990730_14.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	3020	End	3646
GI	none	Score	57
Exons	3020..3646, 3021..3098, 3023..3457, 3141..3590, 3617..3643		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o3.tm	Method	TBLASTX:Maize
Start	3515	End	3807
GI	none	Score	143
Exons	3515..3805, 3519..3698, 3524..3736, 3616..3807		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o2.ts	Method	TBLASTX:Soybean
Start	3605	End	3865
GI	none	Score	61
Exons	3605..3865, 3658..3864		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	3629	End	3955
GI	none	Score	90
Exons	3629..3772, 3773..3955		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o3.tw	Method	TBLASTX:Wheat
Start	3653	End	4132
GI	none	Score	217
Exons	3653..4132, 3654..4037, 3659..4114		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o2.tw	Method	TBLASTX:Wheat
Start	4136	End	4645
GI	none	Score	284
Exons	4136..4645, 4227..4613, 4346..4645		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o2.tm	Method	TBLASTX:Maize
Start	4220	End	4573
GI	none	Score	73
Exons	4220..4573, 4305..4370, 4346..4531, 4395..4571		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o3.ts	Method	TBLASTX:Soybean

Start	4394	End	4636
GI	none	Score	195
Exons	4394..4636		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o4.tm	Method	TBLASTX:Maize
Start	4574	End	4927
GI	none	Score	36
Exons	4574..4927, 4581..4610, 4656..4763, 4815..4913		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o5.tw	Method	TBLASTX:Wheat
Start	4646	End	4948
GI	none	Score	216
Exons	4646..4948, 4647..4946		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	4661	End	5060
GI	none	Score	142
Exons	4661..4981, 4662..4952, 5001..5060, 5001..5060		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o5.tm	Method	TBLASTX:Maize
Start	4943	End	5360
GI	none	Score	82
Exons	4943..4981, 4980..5360, 5040..5324		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o4.tw	Method	TBLASTX:Wheat
Start	5034	End	5494
GI	none	Score	217
Exons	5034..5366, 5044..5349, 5348..5494, 5371..5490		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o8.tm	Method	TBLASTX:Maize
Start	5787	End	6092
GI	none	Score	183
Exons	5787..6092		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o8.tw	Method	TBLASTX:Wheat
Start	5832	End	6176

GI	none	Score	90
Exons	5832..6086, 5842..6054, 6132..6176		
Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o7.tm	Method	TBLASTX:Maize
Start	6441	End	6737
GI	none	Score	100
Exons	6441..6737, 6550..6720		

Seq. No.	50487	Seq. ID	OJ990730_14.0419.C38
Gene No.	107170	Strand	-
Start	913	End	8442
Name	OJ990730_14.0419.C38.o7.tw	Method	TBLASTX:Wheat
Start	6618	End	6981
GI	none	Score	82
Exons	6618..6977, 6619..6852, 6877..6981		

Seq. No.	50488	Seq. ID	OJ990730_14.0419.C39
Gene No.	107171	Strand	-
Start	400	End	1091
Name	OJ990730_14.0419.C39.o1.gs	Method	GENSCAN
Start	400	End	1091
GI	none	Score	.51
Exons	400..628, 956..1091		

Seq. No.	50489	Seq. ID	OJ990730_14.0419.C43
Gene No.	107172	Strand	-
Start	388	End	1687
Name	OJ990730_14.0419.C43.o1.gs	Method	GENSCAN
Start	388	End	1687
GI	none	Score	.53
Exons	388..481, 1638..1687		

Seq. No.	50490	Seq. ID	OJ990720_12.0419.C10
Gene No.	107173	Strand	-
Start	781	End	943
Name	OJ990720_12.0419.C10.o1.gp	Method	AAT/GAP
Start	781	End	943
GI	57500_1.R1084	Score	299
Exons	781..943		
GI Descrip.	'5669634/gb AAD46402.1 AF096246_1 5.0e-25 (AF096246) ethylene-responsive transcriptional coactivator [Lycopersicon esculentum]'		

Seq. No.	50491	Seq. ID	OJ990720_12.0419.C11
Gene No.	107174	Strand	+
Start	112	End	722
Name	OJ990720_12.0419.C11.o1.np	Method	AAT/NAP
Start	112	End	722
GI	2149127	Score	304
Exons	112..722		
GI Descrip.	(U81293) UDP-glucose:indole-3-acetate beta-D-glucosyltransferase [Arabidopsis thaliana]		

Seq. No.	50491	Seq. ID	OJ990720_12.0419.C11
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Gene No.	107174	Strand	+
Start	112	End	722
Name	OJ990720_12.0419.C11.o1.gs	Method	GENSCAN
Start	121	End	687
GI	none	Score	.68
Exons	121..687		

Seq. No.	50491	Seq. ID	OJ990720_12.0419.C11
Gene No.	107174	Strand	+
Start	112	End	722
Name	OJ990720_12.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	136	End	645
GI	none	Score	83
Exons	136..270, 334..387, 385..645, 399..641		

Seq. No.	50491	Seq. ID	OJ990720_12.0419.C11
Gene No.	107174	Strand	+
Start	112	End	722
Name	OJ990720_12.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	315	End	599
GI	none	Score	211
Exons	315..599, 316..567		

Seq. No.	50492	Seq. ID	OJ990720_12.0419.C13
Gene No.	107175	Strand	+
Start	66	End	802
Name	OJ990720_12.0419.C13.o1.gs	Method	GENSCAN
Start	66	End	802
GI	none	Score	.64
Exons	66..200, 262..299, 702..802		

Seq. No.	50493	Seq. ID	OJ990720_12.0419.C19
Gene No.	107176	Strand	+
Start	14	End	1281
Name	OJ990720_12.0419.C19.o1.gs	Method	GENSCAN
Start	14	End	1281
GI	none	Score	.76
Exons	14..42, 1203..1281		

Seq. No.	50494	Seq. ID	OJ990720_12.0419.C20
Gene No.	107177	Strand	+
Start	1933	End	3196
Name	OJ990720_12.0419.C20.o2.np	Method	AAT/NAP
Start	1933	End	3196
GI	7340860	Score	94
Exons	1933..1991, 3106..3196		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50494	Seq. ID	OJ990720_12.0419.C20
Gene No.	107178	Strand	-
Start	540	End	2745
Name	OJ990720_12.0419.C20.o1.np	Method	AAT/NAP
Start	540	End	2745
GI	7459350	Score	445
Exons	540..969, 2466..2745		
GI Descrip.	citrate-binding protein precursor - Para rubber tree		

gi|1177405|emb|CAA61951.1| (X89855) citrate binding protein
[Hevea brasiliensis]

Seq. No.	50494	Seq. ID	OJ990720_12.0419.C20
Gene No.	107178	Strand	-
Start	540	End	2745
Name	OJ990720_12.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	587	End	2612
GI	none	Score	65
Exons	587..700, 595..699, 691..879, 692..880, 859..969, 860..895, 938..982, 2469..2612		

Seq. No.	50495	Seq. ID	OJ990720_12.0419.C21
Gene No.	107179	Strand	-
Start	472	End	880
Name	OJ990720_12.0419.C21.o1.gs	Method	GENSCAN
Start	472	End	880
GI	none	Score	.65
Exons	472..522, 719..880		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107180	Strand	+
Start	159	End	2951
Name	OJ990720_12.0419.C22.o2.np	Method	AAT/NAP
Start	159	End	2951
GI	7340860	Score	78
Exons	159..253, 1310..1422, 2933..2951		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107180	Strand	+
Start	159	End	2951
Name	OJ990720_12.0419.C22.o1.np	Method	AAT/NAP
Start	618	End	1313
GI	4680191	Score	41
Exons	618..713, 1261..1313		
GI Descrip.	(AF111710) putative myb-related protein [Oryza sativa subsp. indica]		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o1.gp	Method	AAT/GAP
Start	2716	End	3855
GI	6024930	Score	990
Exons	2716..3017, 3311..3373, 3552..3677, 3772..3855		
GI Descrip.	5091541/gb AAD39570.1 AC007067_10 5.0e-26 (AC007067) T10024.10 [Arabidopsis thaliana]		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o2.gs	Method	GENSCAN
Start	2772	End	15164
GI	none	Score	.7
Exons	2772..3017, 3311..3373, 3552..3677, 3772..3867, 4302..4420,		

4760..4868, 5484..5571, 5802..5839, 5926..6102, 7760..7847,
7924..8047, 8166..8260, 8339..8475, 9749..9847, 9931..10024,
10099..10232, 10322..10432, 10631..10804, 10970..11092,
11203..11374, 11529..11829, 13028..13562, 14110..14283,
15075..15164

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o3.np	Method	AAT/NAP
Start	2772	End	11725
GI	5091541	Score	2873
Exons	2772..3017, 3311..3376, 3552..3677, 3772..3900, 4302..4449, 4526..4595, 4760..4868, 4960..5139, 5484..5571, 5802..5839, 5926..6102, 7446..7498, 7590..7689, 7733..7847, 7924..8048, 8158..8475, 9749..9847, 9931..10024, 10099..10232, 10322..10432, 10631..10804, 10970..11092, 11203..11374, 11529..11725		
GI Descrip.	(AC007067) T10024.10 [Arabidopsis thaliana]		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	3552	End	5142
GI	none	Score	44
Exons	3552..3680, 3778..3876, 4290..4382, 4806..4880, 4823..4867, 4828..4869, 4960..5142, 4961..5044, 4966..5118		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o4.tm	Method	TBLASTX:Maize
Start	3555	End	3886
GI	none	Score	167
Exons	3555..3680, 3556..3678, 3597..3680, 3770..3886, 3772..3876		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	4278	End	7638
GI	none	Score	68
Exons	4278..4376, 4290..4451, 4303..4452, 4303..4455, 4526..4597, 4528..4596, 4761..4781, 4777..4869, 4779..4874, 4960..5142, 4961..5044, 4963..5130, 5105..5140, 5483..5548, 5553..5573, 5798..5854, 5799..5840, 5907..6062, 5917..6075, 5924..6061, 7440..7502, 7588..7638		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	4344	End	5142
GI	none	Score	99
Exons	4344..4451, 4516..4614, 4745..4837, 4756..4863, 4761..4865, 4761..4874, 4955..5044, 4960..5142, 4963..5127		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o2.tc	Method	TBLASTX:Cress
Start	7432	End	7698
GI	none	Score	68
Exons	7432..7500, 7434..7499, 7586..7687, 7588..7698		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	7656	End	8054
GI	none	Score	62
Exons	7656..7691, 7657..7692, 7658..7693, 7752..7847, 7760..7849, 7761..7850, 7762..7854, 7923..7997, 7923..7997, 7927..7998, 7989..8054, 7990..8046		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o3.ts	Method	TBLASTX:Soybean
Start	7793	End	8028
GI	none	Score	54
Exons	7793..7849, 7794..7850, 7906..8028, 7923..8027		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o2.gp	Method	AAT/GAP
Start	9985	End	10801
GI	2310205	Score	814
Exons	9985..10024, 10098..10232, 10322..10432, 10631..10801		
GI Descrip.	5091541/gb AAD39570.1 AC007067_10 2.0e-53 (AC007067) T10024.10 [Arabidopsis thaliana]		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o3.tm	Method	TBLASTX:Maize
Start	12989	End	13199
GI	none	Score	210
Exons	12989..13195, 12993..13199, 12994..13194		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o4.np	Method	AAT/NAP
Start	12999	End	15579
GI	6978923	Score	930
Exons	12999..13562, 14110..14292, 15470..15579		
GI Descrip.	(AC021665) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50496	Seq. ID	OJ990720_12.0419.C22
Gene No.	107181	Strand	-
Start	2772	End	15579
Name	OJ990720_12.0419.C22.o1.ts	Method	TBLASTX:Soybean

Start 13005
 GI none
 Exons 13005..13565, 13006..13563

End 13565
 Score 476

Seq. No. 50497
 Gene No. 107182
 Start 996
 Name OJ990720_12.0419.C23.o1.tm
 Start 66
 GI none
 Exons 66..176, 68..196, 80..184, 230..328, 231..329, 288..356, 363..401, 376..411

Seq. ID OJ990720_12.0419.C23
 Strand -
 End 1295
 Method TBLASTX:Maize
 End 411
 Score 114

Seq. No. 50497
 Gene No. 107182
 Start 996
 Name OJ990720_12.0419.C23.o1.gp
 Start 996
 GI LIB3433-036-P1-K1-H8
 Exons 996..1295
 GI Descrip. '4581150/gb|AAD24634.1|AC006919_12 4.0e-49 (AC006919) hypothetical protein [Arabidopsis thaliana]'

Seq. ID OJ990720_12.0419.C23
 Strand -
 End 1295
 Method AAT/GAP
 End 1295
 Score 529

Seq. No. 50498
 Gene No. 107183
 Start 21
 Name OJ990720_12.0419.C24.o1.gs
 Start 21
 GI none
 Exons 21..486

Seq. ID OJ990720_12.0419.C24
 Strand -
 End 548
 Method GENSCAN
 End 486
 Score .46

Seq. No. 50498
 Gene No. 107183
 Start 21
 Name OJ990720_12.0419.C24.o1.gp
 Start 347
 GI 3061005
 Exons 347..548

Seq. ID OJ990720_12.0419.C24
 Strand -
 End 548
 Method AAT/GAP
 End 548
 Score 282

Seq. No. 50498
 Gene No. 107184
 Start 1293
 Name OJ990720_12.0419.C24.o1.tm
 Start 116
 GI none
 Exons 116..196, 116..190, 118..198, 242..340, 251..352, 253..348

Seq. ID OJ990720_12.0419.C24
 Strand -
 End 1555
 Method TBLASTX:Maize
 End 352
 Score 106

Seq. No. 50498
 Gene No. 107184
 Start 1293
 Name OJ990720_12.0419.C24.o2.gp
 Start 1293
 GI 3061005
 Exons 1293..1555

Seq. ID OJ990720_12.0419.C24
 Strand -
 End 1555
 Method AAT/GAP
 End 1555
 Score 484

Seq. No. 50499
 Gene No. 107185

Seq. ID OJ990720_12.0419.C25
 Strand +

Start	1681	End	3655
Name	OJ990720_12.0419.C25.o1.gs	Method	GENSCAN
Start	1681	End	3647
GI	none	Score	.86
Exons	1681..2082, 2248..2388, 3471..3647		

Seq. No.	50499	Seq. ID	OJ990720_12.0419.C25
Gene No.	107185	Strand	+
Start	1681	End	3655
Name	OJ990720_12.0419.C25.o1.np	Method	AAT/NAP
Start	1798	End	3655
GI	7485401	Score	288
Exons	1798..2070, 2239..2388, 3492..3655		
GI Descrip.	hypothetical protein F12C20.6 - Arabidopsis thaliana gi 3426051 gb AAC32250.1 (AC005168) putative Na+ dependent ileal bile acid transporter [Arabidopsis thaliana]		

Seq. No.	50500	Seq. ID	OJ990720_12.0419.C26
Gene No.	107186	Strand	+
Start	1	End	6578
Name	OJ990720_12.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	1223
GI	4836878	Score	148
Exons	1..92, 240..334, 550..610, 1062..1223		
GI Descrip.	(AC007260) lcl prt_seq No definition line found [Arabidopsis thaliana]		

Seq. No.	50500	Seq. ID	OJ990720_12.0419.C26
Gene No.	107186	Strand	+
Start	1	End	6578
Name	OJ990720_12.0419.C26.o1.gs	Method	GENSCAN
Start	197	End	3283
GI	none	Score	.85
Exons	197..334, 550..610, 1062..1187, 3063..3180, 3213..3283		

Seq. No.	50500	Seq. ID	OJ990720_12.0419.C26
Gene No.	107186	Strand	+
Start	1	End	6578
Name	OJ990720_12.0419.C26.o2.tm	Method	TBLASTX:Maize
Start	560	End	1204
GI	none	Score	77
Exons	560..613, 562..612, 1056..1199, 1059..1196, 1061..1201, 1061..1204		

Seq. No.	50500	Seq. ID	OJ990720_12.0419.C26
Gene No.	107186	Strand	+
Start	1	End	6578
Name	OJ990720_12.0419.C26.o2.np	Method	AAT/NAP
Start	698	End	4971
GI	7363274	Score	119
Exons	698..826, 3336..3505, 4946..4971		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F17A8; putative protein. (AL049482) [Oryza sativa]		

Seq. No.	50500	Seq. ID	OJ990720_12.0419.C26
Gene No.	107186	Strand	+
Start	1	End	6578

Name	OJ990720_12.0419.C26.o1.gp	Method	AAT/GAP
Start	3029	End	6473
GI	none	Score	1682
Exons	3029..3180, 3714..3811, 4591..5140, 6378..6473		

Seq. No.	50500	Seq. ID	OJ990720_12.0419.C26
Gene No.	107186	Strand	+
Start	1	End	6578
Name	OJ990720_12.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	3720	End	6578
GI	none	Score	71
Exons	3720..3815, 4571..4720, 4589..4966, 4674..4961, 4979..5095, 5006..5140, 6372..6575, 6376..6573, 6376..6576, 6396..6578		

Seq. No.	50500	Seq. ID	OJ990720_12.0419.C26
Gene No.	107186	Strand	+
Start	1	End	6578
Name	OJ990720_12.0419.C26.o2.gs	Method	GENSCAN
Start	3777	End	6516
GI	none	Score	.97
Exons	3777..3811, 4591..5140, 6378..6516		

Seq. No.	50500	Seq. ID	OJ990720_12.0419.C26
Gene No.	107186	Strand	+
Start	1	End	6578
Name	OJ990720_12.0419.C26.o3.np	Method	AAT/NAP
Start	3777	End	6578
GI	6498438	Score	1066
Exons	3777..3811, 4591..4729, 4790..5140, 6378..6578		
GI Descrip.	(AP000815) EST C93513(C53164) corresponds to a region of the predicted gene.; Similar to Arabidopsis thaliana chromosome II BAC F5H14 genomic sequence, hypothetical protein. (AC006234) [Oryza sativa]		

Seq. No.	50501	Seq. ID	OJ990720_12.0419.C27
Gene No.	107187	Strand	+
Start	1487	End	3163
Name	OJ990720_12.0419.C27.o1.gs	Method	GENSCAN
Start	1487	End	3163
GI	none	Score	.57
Exons	1487..1665, 1670..1894, 2012..2062, 2175..2278, 2542..2629, 2980..3163		

Seq. No.	50501	Seq. ID	OJ990720_12.0419.C27
Gene No.	107188	Strand	-
Start	1534	End	2150
Name	OJ990720_12.0419.C27.o1.np	Method	AAT/NAP
Start	1534	End	2150
GI	6691485	Score	220
Exons	1534..2150		
GI Descrip.	(AB032198) gibberellin 3beta-hydroxylase [Nicotiana tabacum]		

Seq. No.	50501	Seq. ID	OJ990720_12.0419.C27
Gene No.	107188	Strand	-
Start	1534	End	2150
Name	OJ990720_12.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	1585	End	2007

GI	none	Score	71
Exons	1585..1722, 1727..1822, 1835..1870, 1879..1893, 1945..2007		
Seq. No.	50502	Seq. ID	OJ990720_12.0419.C28
Gene No.	107189	Strand	+
Start	2888	End	3629
Name	OJ990720_12.0419.C28.o1.gs	Method	GENSCAN
Start	2888	End	3629
GI	none	Score	.81
Exons	2888..3020, 3026..3124, 3385..3629		

Seq. No.	50502	Seq. ID	OJ990720_12.0419.C28
Gene No.	107190	Strand	+
Start	7327	End	8202
Name	OJ990720_12.0419.C28.o1.np	Method	AAT/NAP
Start	7306	End	8202
GI	6729490	Score	314
Exons	7306..7503, 7927..8202		
GI Descrip.	(AL132966) putative protein [Arabidopsis thaliana]		

Seq. No.	50502	Seq. ID	OJ990720_12.0419.C28
Gene No.	107190	Strand	+
Start	7327	End	8202
Name	OJ990720_12.0419.C28.o2.gs	Method	GENSCAN
Start	7327	End	8178
GI	none	Score	.53
Exons	7327..7582, 7918..8178		

Seq. No.	50503	Seq. ID	OJ990720_12.0419.C29
Gene No.	107191	Strand	+
Start	1	End	4686
Name	OJ990720_12.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	4261
GI	6729490	Score	959
Exons	1..38, 1131..1206, 1317..1400, 2022..2118, 2217..2304, 3146..3251, 3343..3435, 3854..4261		
GI Descrip.	(AL132966) putative protein [Arabidopsis thaliana]		

Seq. No.	50503	Seq. ID	OJ990720_12.0419.C29
Gene No.	107191	Strand	+
Start	1	End	4686
Name	OJ990720_12.0419.C29.o1.gs	Method	GENSCAN
Start	1131	End	4686
GI	none	Score	.69
Exons	1131..1218, 3146..3323, 3343..3435, 3854..4135, 4660..4686		

Seq. No.	50503	Seq. ID	OJ990720_12.0419.C29
Gene No.	107191	Strand	+
Start	1	End	4686
Name	OJ990720_12.0419.C29.o1.gp	Method	AAT/GAP
Start	2021	End	3430
GI	17927_1.R1084	Score	690
Exons	2021..2118, 2217..2304, 3146..3251, 3341..3430		
GI Descrip.	'4371285/gb AAD18143 2.0e-41 (AC006260) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	50503	Seq. ID	OJ990720_12.0419.C29
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Gene No.	107192	Strand	-
Start	4022	End	4673
Name	OJ990720_12.0419.C29.o2.gp	Method	AAT/GAP
Start	4022	End	4673
GI	45822.1.R1084	Score	1201
Exons	4022..4673		
GI Descrip.	'4371285/gb AAD18143 1.0e-09 (AC006260) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	50503	Seq. ID	OJ990720_12.0419.C29
Gene No.	107193	Strand	-
Start	4824	End	7853
Name	OJ990720_12.0419.C29.o2.ts	Method	TBLASTX:Soybean
Start	1117	End	3194
GI	none	Score	123
Exons	1117..1215, 1128..1223, 1129..1218, 1305..1400, 1909..1986, 2007..2120, 2019..2120, 2021..2131, 2030..2125, 2215..2304, 2216..2302, 2218..2304, 3126..3194		

Seq. No.	50503	Seq. ID	OJ990720_12.0419.C29
Gene No.	107193	Strand	-
Start	4824	End	7853
Name	OJ990720_12.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	1197	End	4292
GI	none	Score	39
Exons	1197..1223, 1198..1218, 1305..1400, 1319..1399, 2007..2120, 2009..2125, 2009..2119, 2215..2304, 2216..2302, 2217..2309, 2218..2307, 3126..3254, 3139..3252, 3143..3253, 3342..3404, 3343..3405, 3408..3431, 3841..4194, 3851..4177, 3853..4194, 3854..4276, 4177..4284, 4199..4285, 4199..4285, 4200..4292		

Seq. No.	50503	Seq. ID	OJ990720_12.0419.C29
Gene No.	107193	Strand	-
Start	4824	End	7853
Name	OJ990720_12.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	3340	End	4144
GI	none	Score	129
Exons	3340..3453, 3342..3443, 3841..3969, 3852..3896, 3854..3970, 3977..4144, 3979..4143		

Seq. No.	50503	Seq. ID	OJ990720_12.0419.C29
Gene No.	107193	Strand	-
Start	4824	End	7853
Name	OJ990720_12.0419.C29.o1.tc	Method	TBLASTX:Cress
Start	3977	End	4144
GI	none	Score	224
Exons	3977..4144, 3979..4143		

Seq. No.	50503	Seq. ID	OJ990720_12.0419.C29
Gene No.	107193	Strand	-
Start	4824	End	7853
Name	OJ990720_12.0419.C29.o2.gs	Method	GENSCAN
Start	4824	End	7853
GI	none	Score	.5
Exons	4824..5267, 6445..6579, 7605..7853		

Seq. No.	50504	Seq. ID	OJ990720_12.0419.C32
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Gene No.	107194	Strand	+
Start	1249	End	2427
Name	OJ990720_12.0419.C32.o1.np	Method	AAT/NAP
Start	1249	End	2427
GI	7228450	Score	83
Exons	1249..1361, 1977..2065, 2199..2427		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	50505	Seq. ID	OJ990720_12.0419.C33
Gene No.	107195	Strand	+
Start	30	End	1732
Name	OJ990720_12.0419.C33.o1.gs	Method	GENSCAN
Start	30	End	1732
GI	none	Score	.45
Exons	30..120, 1563..1732		

Seq. No.	50505	Seq. ID	OJ990720_12.0419.C33
Gene No.	107196	Strand	+
Start	16900	End	17315
Name	OJ990720_12.0419.C33.o2.np	Method	AAT/NAP
Start	14991	End	15115
GI	7339719	Score	104
Exons	14991..15115		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	50505	Seq. ID	OJ990720_12.0419.C33
Gene No.	107196	Strand	+
Start	16900	End	17315
Name	OJ990720_12.0419.C33.o3.gs	Method	GENSCAN
Start	16900	End	17315
GI	none	Score	.62
Exons	16900..16963, 17038..17315		

Seq. No.	50505	Seq. ID	OJ990720_12.0419.C33
Gene No.	107197	Strand	-
Start	14094	End	15329
Name	OJ990720_12.0419.C33.o1.np	Method	AAT/NAP
Start	14094	End	15329
GI	5777634	Score	64
Exons	14094..14182, 15307..15329		
GI Descrip.	(AJ245900) CAA303722.1 protein [Oryza sativa]		

Seq. No.	50505	Seq. ID	OJ990720_12.0419.C33
Gene No.	107198	Strand	-
Start	19023	End	28073
Name	OJ990720_12.0419.C33.o4.gs	Method	GENSCAN
Start	19023	End	25366
GI	none	Score	.51
Exons	19023..19519, 19835..20017, 20098..20213, 22290..22392, 24703..24906, 25081..25366		

Seq. No.	50505	Seq. ID	OJ990720_12.0419.C33
Gene No.	107198	Strand	-
Start	19023	End	28073
Name	OJ990720_12.0419.C33.o2.gp	Method	AAT/GAP
Start	22275	End	22565
GI	uC-osroM202036d05b1	Score	340

Exons 22275..22392, 22466..22565
GI Descrip. '3033397 1.0e-12 (AC004238) unknown protein [Arabidopsis thaliana]'

Seq. No. 50505 Seq. ID OJ990720_12.0419.C33
Gene No. 107198 Strand -
Start 19023 End 28073
Name OJ990720_12.0419.C33.o3.np Method AAT/NAP
Start 23851 End 28073
GI 6063557 Score 36
Exons 23851..23992, 28038..28073
GI Descrip. (AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]

Seq. No. 50505 Seq. ID OJ990720_12.0419.C33
Gene No. 107198 Strand -
Start 19023 End 28073
Name OJ990720_12.0419.C33.o4.np Method AAT/NAP
Start 24703 End 25360
GI 5777618 Score 100
Exons 24703..24996, 25120..25360
GI Descrip. (AJ245900) CAA30376.1 protein [Oryza sativa]

Seq. No. 50505 Seq. ID OJ990720_12.0419.C33
Gene No. 107198 Strand -
Start 19023 End 28073
Name OJ990720_12.0419.C33.o5.gs Method GENSCAN
Start 25773 End 27888
GI none Score .49
Exons 25773..25902, 25946..26470, 27192..27280, 27313..27515, 27651..27888

Seq. No. 50506 Seq. ID OJ990720_12.0419.C34
Gene No. 107199 Strand +
Start 1 End 7337
Name OJ990720_12.0419.C34.o1.np Method AAT/NAP
Start 1 End 7337
GI 5777618 Score 199
Exons 1..89, 962..1096, 1550..1907, 2247..2355, 6323..6432, 7313..7337
GI Descrip. (AJ245900) CAA30376.1 protein [Oryza sativa]

Seq. No. 50506 Seq. ID OJ990720_12.0419.C34
Gene No. 107199 Strand +
Start 1 End 7337
Name OJ990720_12.0419.C34.o2.np Method AAT/NAP
Start 1 End 6084
GI 7489045 Score 76
Exons 1..30, 2761..3000, 6063..6084
GI Descrip. polyprotein - tomato gi|4235644|gb|AAD13304.1| (AF119040)
polyprotein [Lycopersicon esculentum]

Seq. No. 50506 Seq. ID OJ990720_12.0419.C34
Gene No. 107199 Strand +
Start 1 End 7337
Name OJ990720_12.0419.C34.o1.gs Method GENSCAN
Start 120 End 2499
GI none Score .91
Exons 120..315, 876..1099, 1550..1907, 2247..2441, 2483..2499

Seq. No.	50506	Seq. ID	OJ990720_12.0419.C34
Gene No.	107199	Strand	+
Start	1	End	7337
Name	OJ990720_12.0419.C34.o1.gp	Method	AAT/GAP
Start	876	End	1712
GI	5803405	Score	708
Exons	876..1099, 1550..1712		
GI Descrip.	5777618/emb CAB53479.1 3.0e-15 (AJ245900) CAA30376.1 protein [Oryza sativa]		

Seq. No.	50506	Seq. ID	OJ990720_12.0419.C34
Gene No.	107200	Strand	-
Start	2241	End	2554
Name	OJ990720_12.0419.C34.o2.gp	Method	AAT/GAP
Start	2241	End	2554
GI	5803406	Score	576
Exons	2241..2554		

Seq. No.	50506	Seq. ID	OJ990720_12.0419.C34
Gene No.	107201	Strand	-
Start	3450	End	9886
Name	OJ990720_12.0419.C34.o2.gs	Method	GENSCAN
Start	3450	End	9861
GI	none	Score	.59
Exons	3450..3612, 3908..4038, 5845..5939, 6481..6576, 6679..7062, 7203..7347, 7390..7539, 8980..9063, 9512..9602, 9773..9861		

Seq. No.	50506	Seq. ID	OJ990720_12.0419.C34
Gene No.	107201	Strand	-
Start	3450	End	9886
Name	OJ990720_12.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	6448	End	9574
GI	none	Score	180
Exons	6448..6576, 6458..6580, 6645..6683, 6659..6682, 6677..6754, 6678..6755, 6899..7063, 6903..7187, 6906..7064, 6913..7068, 7201..7347, 7202..7348, 7203..7349, 7203..7349, 7444..7536, 7475..7537, 8980..9066, 8980..9063, 9492..9569, 9502..9570, 9510..9569, 9518..9574		

Seq. No.	50506	Seq. ID	OJ990720_12.0419.C34
Gene No.	107201	Strand	-
Start	3450	End	9886
Name	OJ990720_12.0419.C34.o3.np	Method	AAT/NAP
Start	6593	End	9886
GI	2129851	Score	365
Exons	6593..6751, 6896..7062, 7203..7347, 7477..7539, 8980..9063, 9536..9602, 9773..9886		
GI Descrip.	tRNA adenylyltransferase (EC 2.7.7.25) - white lupine gi 1139585 gb AAB03077.1 (U15930) tRNA nucleotidyltransferase [Lupinus albus]		

Seq. No.	50507	Seq. ID	OJ990720_12.0419.C35
Gene No.	107202	Strand	+
Start	5343	End	10233
Name	OJ990720_12.0419.C35.o2.gs	Method	GENSCAN
Start	5343	End	10233

GI none Score .5
Exons 5343..5354, 6398..6528, 6627..6791, 8010..8115, 8150..8207, 9144..9281, 9708..9877, 10009..10233

Seq. No. 50507 Seq. ID OJ990720_12.0419.C35
Gene No. 107203 Strand -
Start 1 End 10354
Name OJ990720_12.0419.C35.o1.np Method AAT/NAP
Start 1 End 3206
GI 2129851 Score 551
Exons 1..167, 668..766, 871..920, 1024..1079, 1384..1501, 1884..2014, 2896..3206
GI Descrip. tRNA adenylyltransferase (EC 2.7.7.25) - white lupine
gi|1139585|gb|AAB03077.1| (U15930) tRNA nucleotidyltransferase
[Lupinus albus]

Seq. No. 50507 Seq. ID OJ990720_12.0419.C35
Gene No. 107203 Strand -
Start 1 End 10354
Name OJ990720_12.0419.C35.o2.np Method AAT/NAP
Start 1 End 10354
GI 7106516 Score 176
Exons 1..27, 3151..3237, 8517..8686, 10302..10354
GI Descrip. (AP001278) hypothetical protein [Oryza sativa]

Seq. No. 50507 Seq. ID OJ990720_12.0419.C35
Gene No. 107203 Strand -
Start 1 End 10354
Name OJ990720_12.0419.C35.o1.gs Method GENSCAN
Start 651 End 4420
GI none Score .56
Exons 651..766, 871..920, 1024..1076, 1384..1501, 1884..2014, 2896..3133, 3171..3426, 4216..4420

Seq. No. 50508 Seq. ID OJ990720_12.0419.C36
Gene No. 107204 Strand +
Start 1378 End 1616
Name OJ990720_12.0419.C36.o1.tw Method TBLASTX:Wheat
Start 204 End 498
GI none Score 64
Exons 204..251, 205..255, 240..356, 247..375, 250..369, 379..498, 387..497

Seq. No. 50508 Seq. ID OJ990720_12.0419.C36
Gene No. 107204 Strand +
Start 1378 End 1616
Name OJ990720_12.0419.C36.o1.gs Method GENSCAN
Start 1378 End 1616
GI none Score .45
Exons 1378..1466, 1484..1616

Seq. No. 50509 Seq. ID OJ990720_12.0419.C48
Gene No. 107205 Strand +
Start 397 End 923
Name OJ990720_12.0419.C48.o1.np Method AAT/NAP
Start 397 End 923
GI 7488132 Score 86

Exons 397..466, 865..923
 GI Descrip. probable membrane protein T20F6.5 - Arabidopsis thaliana
 gi|2947060|gb|AAC05341.1| (AC002521) unknown protein
 [Arabidopsis thaliana]

Seq. No.	50509	Seq. ID	OJ990720_12.0419.C48
Gene No.	107205	Strand	+
Start	397	End	923
Name	OJ990720_12.0419.C48.o1.gp	Method	AAT/GAP
Start	433	End	923
GI	7928_1.R1084	Score	143
Exons	433..466, 865..923		
GI Descrip.	'2947060 1.0e-102 (AC002521) putative membrane protein [Arabidopsis thaliana]'		

Seq. No.	50510	Seq. ID	OJ990720_12.0419.C49
Gene No.	107206	Strand	+
Start	1	End	730
Name	OJ990720_12.0419.C49.o1.np	Method	AAT/NAP
Start	1	End	730
GI	6630685	Score	1185
Exons	1..730		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	50510	Seq. ID	OJ990720_12.0419.C49
Gene No.	107206	Strand	+
Start	1	End	730
Name	OJ990720_12.0419.C49.o1.tw	Method	TBLASTX:Wheat
Start	2	End	344
GI	none	Score	126
Exons	2..76, 3..89, 9..86, 78..242, 89..253, 199..264, 264..344, 264..344		

Seq. No.	50510	Seq. ID	OJ990720_12.0419.C49
Gene No.	107206	Strand	+
Start	1	End	730
Name	OJ990720_12.0419.C49.o2.tm	Method	TBLASTX:Maize
Start	2	End	449
GI	none	Score	394
Exons	2..322, 3..449, 326..367		

Seq. No.	50510	Seq. ID	OJ990720_12.0419.C49
Gene No.	107206	Strand	+
Start	1	End	730
Name	OJ990720_12.0419.C49.o1.gs	Method	GENSCAN
Start	56	End	674
GI	none	Score	.56
Exons	56..674		

Seq. No.	50510	Seq. ID	OJ990720_12.0419.C49
Gene No.	107206	Strand	+
Start	1	End	730
Name	OJ990720_12.0419.C49.o1.tm	Method	TBLASTX:Maize
Start	456	End	730
GI	none	Score	404
Exons	456..728, 458..730, 622..729		

Seq. No.	50510	Seq. ID	OJ990720_12.0419.C49
Gene No.	107206	Strand	+
Start	1	End	730
Name	OJ990720_12.0419.C49.o1.ts	Method	TBLASTX:Soybean
Start	491	End	725
GI	none	Score	273
Exons	491..724, 492..725, 540..725		

Seq. No.	50511	Seq. ID	OJ990920_16.0419.C2
Gene No.	107207	Strand	
Start	820	End	1921
Name	OJ990920_16.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	820	End	1921
GI	none	Score	185
Exons	820..990, 821..991, 821..994, 829..993, 834..995, 1640..1723, 1686..1721, 1730..1885, 1844..1882, 1898..1921		

Seq. No.	50511	Seq. ID	OJ990920_16.0419.C2
Gene No.	107208	Strand	
Start	3616	End	3961
Name	OJ990920_16.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	3616	End	3961
GI	none	Score	144
Exons	3616..3756, 3628..3753, 3845..3961		

Seq. No.	50512	Seq. ID	OJ990920_16.0419.C3
Gene No.	107209	Strand	+
Start	24	End	399
Name	OJ990920_16.0419.C3.o1.gs	Method	GENSCAN
Start	24	End	399
GI	none	Score	.85
Exons	24..203, 232..399		

Seq. No.	50512	Seq. ID	OJ990920_16.0419.C3
Gene No.	107210	Strand	+
Start	811	End	6408
Name	OJ990920_16.0419.C3.o2.gs	Method	GENSCAN
Start	811	End	6408
GI	none	Score	.73
Exons	811..1263, 1519..1723, 2319..2476, 4199..4438, 5838..6093, 6182..6408		

Seq. No.	50512	Seq. ID	OJ990920_16.0419.C3
Gene No.	107210	Strand	+
Start	811	End	6408
Name	OJ990920_16.0419.C3.o1.np	Method	AAT/NAP
Start	861	End	6402
GI	7486718	Score	999
Exons	861..1125, 2327..2367, 2398..2476, 4199..4438, 5838..6093, 6182..6402		
GI Descrip.	hypothetical protein F8M12.9 - Arabidopsis thaliana gi 3513738 gb AAC33954.1 (AF080118) similar to the GDSL family of lipolytic enzymes [Arabidopsis thaliana]		

Seq. No.	50512	Seq. ID	OJ990920_16.0419.C3
Gene No.	107211	Strand	-

Start	7261	End	9241
Name	OJ990920_16.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	961	End	1137
GI	none	Score	116
Exons	961..1044, 981..1043, 1035..1124, 1036..1137		

Seq. No.	50512	Seq. ID	OJ990920_16.0419.C3
Gene No.	107211	Strand	-
Start	7261	End	9241
Name	OJ990920_16.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	961	End	1170
GI	none	Score	182
Exons	961..1170, 981..1136		

Seq. No.	50512	Seq. ID	OJ990920_16.0419.C3
Gene No.	107211	Strand	-
Start	7261	End	9241
Name	OJ990920_16.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	7256	End	8616
GI	none	Score	92
Exons	7256..7327, 7262..7327, 7263..7328, 7435..7551, 7436..7552, 7439..7549, 7634..7720, 7658..7726, 8138..8200, 8140..8202, 8560..8616		

Seq. No.	50512	Seq. ID	OJ990920_16.0419.C3
Gene No.	107211	Strand	-
Start	7261	End	9241
Name	OJ990920_16.0419.C3.o3.gs	Method	GENSCAN
Start	7261	End	8878
GI	none	Score	.78
Exons	7261..7324, 7436..7548, 7634..7714, 8143..8195, 8559..8717, 8815..8878		

Seq. No.	50512	Seq. ID	OJ990920_16.0419.C3
Gene No.	107211	Strand	-
Start	7261	End	9241
Name	OJ990920_16.0419.C3.o2.np	Method	AAT/NAP
Start	7264	End	9241
GI	3309082	Score	477
Exons	7264..7324, 7436..7548, 7634..7714, 8143..8195, 8559..8667, 8819..8878, 8992..9074, 9163..9241		
GI Descrip.	(AF076251) calcineurin B-like protein 1 [Arabidopsis thaliana]		

Seq. No.	50512	Seq. ID	OJ990920_16.0419.C3
Gene No.	107211	Strand	-
Start	7261	End	9241
Name	OJ990920_16.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	7273	End	7708
GI	none	Score	54
Exons	7273..7344, 7274..7324, 7399..7548, 7436..7564, 7637..7708		

Seq. No.	50512	Seq. ID	OJ990920_16.0419.C3
Gene No.	107211	Strand	-
Start	7261	End	9241
Name	OJ990920_16.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	7435	End	8668
GI	none	Score	61

Exons 7435..7551, 7633..7707, 7634..7720, 8138..8194, 8140..8202,
8558..8668, 8563..8667, 8564..8668

Seq. No.	50513	Seq. ID	OJ990920_16.0419.C4
Gene No.	107212	Strand	-
Start	1271	End	1802
Name	OJ990920_16.0419.C4.o1.gs	Method	GENSCAN
Start	1271	End	1802
GI	none	Score	.78
Exons	1271..1482, 1775..1802		

Seq. No.	50514	Seq. ID	OJ990920_16.0419.C5
Gene No.	107213	Strand	+
Start	3952	End	4047
Name	OJ990920_16.0419.C5.o1.gp	Method	AAT/GAP
Start	3952	End	4047
GI	LIB3477-003-P1-K1-E9	Score	155
Exons	3952..4047		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I)>gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	50514	Seq. ID	OJ990920_16.0419.C5
Gene No.	107214	Strand	+
Start	5104	End	5991
Name	OJ990920_16.0419.C5.o1.np	Method	AAT/NAP
Start	5104	End	5991
GI	6721516	Score	546
Exons	5104..5341, 5752..5991		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	50514	Seq. ID	OJ990920_16.0419.C5
Gene No.	107215	Strand	-
Start	841	End	5431
Name	OJ990920_16.0419.C5.o2.gs	Method	GENSCAN
Start	841	End	5431
GI	none	Score	.51
Exons	841..1124, 1963..2066, 2694..2794, 3117..3183, 5240..5431		

Seq. No.	50515	Seq. ID	OJ990920_16.0419.C8
Gene No.	107216	Strand	+
Start	833	End	1669
Name	OJ990920_16.0419.C8.o1.gs	Method	GENSCAN
Start	833	End	1669
GI	none	Score	.69
Exons	833..994, 1031..1669		

Seq. No.	50515	Seq. ID	OJ990920_16.0419.C8
Gene No.	107217	Strand	-
Start	3023	End	3085
Name	OJ990920_16.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	833	End	1582
GI	none	Score	161
Exons	833..994, 928..996, 1073..1132, 1105..1185, 1264..1365, 1265..1408, 1403..1582, 1429..1581		

Seq. No.	50515	Seq. ID	OJ990920_16.0419.C8
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Gene No.	107217	Strand	-
Start	3023	End	3085
Name	OJ990920_16.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1456	End	1585
GI	none	Score	236
Exons	1456..1581, 1457..1585		

Seq. No.	50515	Seq. ID	OJ990920_16.0419.C8
Gene No.	107217	Strand	-
Start	3023	End	3085
Name	OJ990920_16.0419.C8.o2.gs	Method	GENSCAN
Start	3023	End	3085
GI	none	Score	.69
Exons	3023..3085		

Seq. No.	50516	Seq. ID	OJ990920_16.0419.C9
Gene No.	107218	Strand	+
Start	1	End	1753
Name	OJ990920_16.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1753
GI	6006359	Score	58
Exons	1..88, 1402..1499, 1679..1753		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	50516	Seq. ID	OJ990920_16.0419.C9
Gene No.	107219	Strand	-
Start	26	End	397
Name	OJ990920_16.0419.C9.o1.gs	Method	GENSCAN
Start	26	End	397
GI	none	Score	.77
Exons	26..397		

Seq. No.	50516	Seq. ID	OJ990920_16.0419.C9
Gene No.	107220	Strand	-
Start	811	End	1141
Name	OJ990920_16.0419.C9.o2.gs	Method	GENSCAN
Start	811	End	1141
GI	none	Score	.4
Exons	811..900, 1006..1066, 1071..1141		

Seq. No.	50517	Seq. ID	OJ990920_16.0419.C10
Gene No.	107221	Strand	+
Start	231	End	1626
Name	OJ990920_16.0419.C10.o1.gs	Method	GENSCAN
Start	231	End	1626
GI	none	Score	.67
Exons	231..398, 866..979, 1034..1246, 1600..1626		

Seq. No.	50517	Seq. ID	OJ990920_16.0419.C10
Gene No.	107222	Strand	-
Start	1	End	6151
Name	OJ990920_16.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	6151
GI	7486138	Score	209
Exons	1..62, 2884..3407, 4094..4194, 4764..4939, 6111..6151		
GI Descrip.	hypothetical protein F25I24.160 - Arabidopsis thaliana gi 4539369 emb CAB40063.1 (AL049525) putative protein		

[Arabidopsis thaliana] gi|7267793|emb|CAB81196.1| (AL161518)
putative protein [Arabidopsis thaliana]

Seq. No.	50517	Seq. ID	OJ990920_16.0419.C10
Gene No.	107222	Strand	-
Start	1	End	6151
Name	OJ990920_16.0419.C10.o2.gs	Method	GENSCAN
Start	2565	End	3409
GI	none	Score	.9
Exons	2565..2770, 2911..3175, 3350..3409		

Seq. No.	50517	Seq. ID	OJ990920_16.0419.C10
Gene No.	107222	Strand	-
Start	1	End	6151
Name	OJ990920_16.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	2903	End	5008
GI	none	Score	52
Exons	2903..3082, 3089..3190, 3089..3190, 3252..3389, 4107..4142, 4173..4220, 4763..4840, 4769..4888, 4773..4868, 4774..4941, 4862..5008, 4879..4944		

Seq. No.	50517	Seq. ID	OJ990920_16.0419.C10
Gene No.	107222	Strand	-
Start	1	End	6151
Name	OJ990920_16.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	2978	End	4975
GI	none	Score	192
Exons	2978..3178, 4107..4142, 4152..4232, 4769..4975		

Seq. No.	50517	Seq. ID	OJ990920_16.0419.C10
Gene No.	107222	Strand	-
Start	1	End	6151
Name	OJ990920_16.0419.C10.o3.gs	Method	GENSCAN
Start	4008	End	5020
GI	none	Score	.44
Exons	4008..4167, 4803..5020		

Seq. No.	50517	Seq. ID	OJ990920_16.0419.C10
Gene No.	107222	Strand	-
Start	1	End	6151
Name	OJ990920_16.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	4764	End	5008
GI	none	Score	94
Exons	4764..4931, 4766..5008		

Seq. No.	50518	Seq. ID	OJ990920_16.0419.C14
Gene No.	107223	Strand	+
Start	101	End	329
Name	OJ990920_16.0419.C14.o1.gs	Method	GENSCAN
Start	101	End	329
GI	none	Score	.69
Exons	101..329		

Seq. No.	50518	Seq. ID	OJ990920_16.0419.C14
Gene No.	107224	Strand	-
Start	953	End	1214
Name	OJ990920_16.0419.C14.o2.gs	Method	GENSCAN

Start	953	End	1214
GI	none	Score	.79
Exons	953..1214		

Seq. No.	50519	Seq. ID	OJ990920_16.0419.C15
Gene No.	107225	Strand	-
Start	644	End	3846
Name	OJ990920_16.0419.C15.o1.gp	Method	AAT/GAP
Start	538	End	1480
GI	1479_1.R1084	Score	1378
Exons	538..946, 1045..1232, 1349..1480		
GI Descrip.	'4467098/emb CAB37532 1.0e-29 (AL035538) putative protein [Arabidopsis thaliana]'		

Seq. No.	50519	Seq. ID	OJ990920_16.0419.C15
Gene No.	107225	Strand	-
Start	644	End	3846
Name	OJ990920_16.0419.C15.o1.gs	Method	GENSCAN
Start	644	End	3687
GI	none	Score	.95
Exons	644..686, 1045..1232, 1349..1593, 1916..2087, 2190..2596, 3543..3687		

Seq. No.	50519	Seq. ID	OJ990920_16.0419.C15
Gene No.	107225	Strand	-
Start	644	End	3846
Name	OJ990920_16.0419.C15.o1.np	Method	AAT/NAP
Start	790	End	3846
GI	6978902	Score	1000
Exons	790..946, 1045..1232, 1349..1593, 1916..2087, 2190..2416, 3815..3846		
GI Descrip.	(AC021199) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50519	Seq. ID	OJ990920_16.0419.C15
Gene No.	107225	Strand	-
Start	644	End	3846
Name	OJ990920_16.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	844	End	2087
GI	none	Score	109
Exons	844..945, 1044..1235, 1078..1233, 1275..1598, 1286..1591, 1944..2024, 2025..2087		

Seq. No.	50519	Seq. ID	OJ990920_16.0419.C15
Gene No.	107225	Strand	-
Start	644	End	3846
Name	OJ990920_16.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	895	End	1505
GI	none	Score	71
Exons	895..945, 1044..1235, 1045..1251, 1335..1505, 1343..1492		

Seq. No.	50519	Seq. ID	OJ990920_16.0419.C15
Gene No.	107225	Strand	-
Start	644	End	3846
Name	OJ990920_16.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	1934	End	2435
GI	none	Score	81
Exons	1934..1981, 1935..1979, 1980..2090, 1980..2087, 2187..2432,		

2187..2435, 2191..2433

Seq. No.	50519	Seq. ID	OJ990920_16.0419.C15
Gene No.	107225	Strand	-
Start	644	End	3846
Name	OJ990920_16.0419.C15.o2.tc	Method	TBLASTX:Cress
Start	2279	End	2406
GI	none	Score	73
Exons	2279..2359, 2279..2356, 2280..2405, 2281..2406		

Seq. No.	50520	Seq. ID	OJ990920_16.0419.C16
Gene No.	107226	Strand	+
Start	1787	End	9823
Name	OJ990920_16.0419.C16.o2.np	Method	AAT/NAP
Start	1787	End	4018
GI	4914386	Score	159
Exons	1787..2083, 2729..2854, 3634..4018		
GI Descrip.	(AC007167) putative GDSL-motif lipase/hydrolase [Arabidopsis thaliana]		

Seq. No.	50520	Seq. ID	OJ990920_16.0419.C16
Gene No.	107226	Strand	+
Start	1787	End	9823
Name	OJ990920_16.0419.C16.o1.gs	Method	GENSCAN
Start	1837	End	2923
GI	none	Score	.97
Exons	1837..2083, 2729..2850, 2885..2923		

Seq. No.	50520	Seq. ID	OJ990920_16.0419.C16
Gene No.	107226	Strand	+
Start	1787	End	9823
Name	OJ990920_16.0419.C16.o3.np	Method	AAT/NAP
Start	3725	End	3950
GI	6714321	Score	42
Exons	3725..3950		
GI Descrip.	(AC016972) putative proline-rich APG protein [Arabidopsis thaliana]		

Seq. No.	50520	Seq. ID	OJ990920_16.0419.C16
Gene No.	107226	Strand	+
Start	1787	End	9823
Name	OJ990920_16.0419.C16.o2.gs	Method	GENSCAN
Start	3726	End	7364
GI	none	Score	.55
Exons	3726..4146, 5008..5412, 7147..7364		

Seq. No.	50520	Seq. ID	OJ990920_16.0419.C16
Gene No.	107226	Strand	+
Start	1787	End	9823
Name	OJ990920_16.0419.C16.o4.np	Method	AAT/NAP
Start	5147	End	9823
GI	728868	Score	124
Exons	5147..5248, 7961..8197, 9773..9823		
GI Descrip.	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG (PROTEIN CEX) gi 99824 pir S16748 proline-rich protein - rape (fragment) gi 22597 emb CAA42924 (X60376) proline-rich protein [Brassica napus]		

Seq. No.	50520	Seq. ID	OJ990920_16.0419.C16
Gene No.	107226	Strand	+
Start	1787	End	9823
Name	OJ990920_16.0419.C16.o5.np	Method	AAT/NAP
Start	5243	End	9702
GI	7442091	Score	107
Exons	5243..5293, 6153..6339, 7953..8245, 9579..9702		
GI Descrip.	proline-rich protein F25E4.50 - Arabidopsis thaliana gi 7321040 emb CAB82148.1 (AL050399) putative proline-rich protein [Arabidopsis thaliana]		

Seq. No.	50520	Seq. ID	OJ990920_16.0419.C16
Gene No.	107226	Strand	+
Start	1787	End	9823
Name	OJ990920_16.0419.C16.o6.np	Method	AAT/NAP
Start	6693	End	9492
GI	7106528	Score	96
Exons	6693..6719, 9364..9492		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50520	Seq. ID	OJ990920_16.0419.C16
Gene No.	107226	Strand	+
Start	1787	End	9823
Name	OJ990920_16.0419.C16.o3.gs	Method	GENSCAN
Start	7871	End	8347
GI	none	Score	.87
Exons	7871..7926, 7980..8127, 8189..8347		

Seq. No.	50520	Seq. ID	OJ990920_16.0419.C16
Gene No.	107227	Strand	-
Start	1	End	2767
Name	OJ990920_16.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	2767
GI	5281029	Score	154
Exons	1..58, 507..1031, 2741..2767		
GI Descrip.	(AL080318) putative reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	50520	Seq. ID	OJ990920_16.0419.C16
Gene No.	107227	Strand	-
Start	1	End	2767
Name	OJ990920_16.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	463	End	879
GI	none	Score	168
Exons	463..618, 628..879		

Seq. No.	50520	Seq. ID	OJ990920_16.0419.C16
Gene No.	107227	Strand	-
Start	1	End	2767
Name	OJ990920_16.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	556	End	975
GI	none	Score	60
Exons	556..606, 706..975, 740..916		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+

Start	186	End	4921
Name	OJ990920_16.0419.C18.o1.gs	Method	GENSCAN
Start	186	End	3882
GI	none	Score	.52
Exons	186..385, 481..1104, 1156..1471, 2694..3882		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o3.tw	Method	TBLASTX:Wheat
Start	612	End	1002
GI	none	Score	355
Exons	612..998, 615..1001, 626..1000, 739..1002		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o1.np	Method	AAT/NAP
Start	621	End	4921
GI	6539553	Score	5035
Exons	621..3821, 4895..4921		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1 (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	750	End	1063
GI	none	Score	357
Exons	750..1061, 758..1063, 760..1062		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o3.tm	Method	TBLASTX:Maize
Start	1562	End	1883
GI	none	Score	223
Exons	1562..1744, 1569..1799, 1578..1796, 1589..1798, 1799..1882, 1801..1881, 1803..1883, 1809..1883		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o4.tm	Method	TBLASTX:Maize
Start	2083	End	2475
GI	none	Score	226
Exons	2083..2475		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o4.tw	Method	TBLASTX:Wheat
Start	2158	End	2352
GI	none	Score	109

Exons 2158..2352, 2160..2345, 2161..2352

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	2353	End	3099
GI	none	Score	187
Exons	2353..2481, 2358..2477, 2536..2577, 2565..2612, 2594..2644, 2611..2640, 2619..2789, 2620..3099, 2620..2820, 2622..2831, 2906..3079, 2940..3098		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	3019	End	3483
GI	5509260	Score	375
Exons	3019..3483, 3114..3332, 3405..3464		
GI Descrip.	-		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	3112	End	3372
GI	none	Score	282
Exons	3112..3372, 3114..3284		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	3153	End	3618
GI	none	Score	355
Exons	3153..3251, 3154..3618		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o2.tw	Method	TBLASTX:Wheat
Start	3154	End	3699
GI	none	Score	316
Exons	3154..3498, 3493..3699		

Seq. No.	50521	Seq. ID	OJ990920_16.0419.C18
Gene No.	107228	Strand	+
Start	186	End	4921
Name	OJ990920_16.0419.C18.o2.ts	Method	TBLASTX:Soybean
Start	3552	End	3819
GI	none	Score	259
Exons	3552..3752, 3553..3819		

Seq. No.	50522	Seq. ID	OJ990920_16.0419.C19
Gene No.	107229	Strand	+
Start	1	End	4152
Name	OJ990920_16.0419.C19.o1.np	Method	AAT/NAP

Start	1	End	4152
GI	6539553	Score	1079
Exons	1..28, 3439..4152		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi 6539590 dbj BAA88206.1 (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	50522	Seq. ID	OJ990920_16.0419.C19
Gene No.	107230	Strand	+
Start	6171	End	10154
Name	OJ990920_16.0419.C19.o2.gs	Method	GENSCAN
Start	6171	End	10154
GI	none	Score	.65
Exons	6171..6468, 8719..8845, 9280..9824, 9943..10154		

Seq. No.	50522	Seq. ID	OJ990920_16.0419.C19
Gene No.	107231	Strand	-
Start	11262	End	12486
Name	OJ990920_16.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	3445	End	3684
GI	none	Score	228
Exons	3445..3684, 3451..3651, 3456..3683		

Seq. No.	50522	Seq. ID	OJ990920_16.0419.C19
Gene No.	107231	Strand	-
Start	11262	End	12486
Name	OJ990920_16.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	3529	End	3903
GI	none	Score	104
Exons	3529..3660, 3679..3903		

Seq. No.	50522	Seq. ID	OJ990920_16.0419.C19
Gene No.	107231	Strand	-
Start	11262	End	12486
Name	OJ990920_16.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	3540	End	4016
GI	none	Score	91
Exons	3540..3611, 3541..3615, 3541..3621, 3630..4016, 3631..3948		

Seq. No.	50522	Seq. ID	OJ990920_16.0419.C19
Gene No.	107231	Strand	-
Start	11262	End	12486
Name	OJ990920_16.0419.C19.o3.gs	Method	GENSCAN
Start	11262	End	12486
GI	none	Score	.7
Exons	11262..11782, 12360..12486		

Seq. No.	50523	Seq. ID	OJ990920_16.0419.C20
Gene No.	107232	Strand	+
Start	976	End	3045
Name	OJ990920_16.0419.C20.o1.np	Method	AAT/NAP
Start	976	End	3045
GI	2062167	Score	82
Exons	976..1141, 2963..3045		
GI Descrip.	(AC001645) Proline-rich protein APG isolog [Arabidopsis thaliana]		

Seq. No.	50524	Seq. ID	OJ990920_16.0419.C21
Gene No.	107233	Strand	-
Start	302	End	3964
Name	OJ990920_16.0419.C21.o1.gs	Method	GENSCAN
Start	302	End	3964
GI	none	Score	.77
Exons	302..354, 571..884, 917..1025, 3242..3340, 3562..3678, 3689..3964		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107234	Strand	+
Start	98	End	6041
Name	OJ990920_16.0419.C22.o1.gs	Method	GENSCAN
Start	98	End	6041
GI	none	Score	.4
Exons	98..448, 537..930, 1073..1526, 1535..2246, 2286..2336, 2361..2453, 2532..2905, 2942..3000, 3005..3132, 3447..3581, 3709..4778, 4799..4907, 4912..5100, 5200..5330, 5339..5613, 5647..6041		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107234	Strand	+
Start	98	End	6041
Name	OJ990920_16.0419.C22.o1.np	Method	AAT/NAP
Start	110	End	6038
GI	7228457	Score	6091
Exons	110..484, 547..2468, 2532..3367, 3490..4417, 4484..6038		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o7.tw	Method	TBLASTX:Wheat
Start	818	End	9609
GI	none	Score	93
Exons	818..907, 822..908, 903..1133, 904..1164, 9520..9609		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o2.tw	Method	TBLASTX:Wheat
Start	1901	End	2540
GI	none	Score	376
Exons	1901..2038, 1902..2432, 2096..2413, 2409..2540		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	2540	End	2981
GI	none	Score	541
Exons	2540..2980, 2541..2981		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
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Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	2670	End	3027
GI	none	Score	323
Exons	2670..2990, 2705..2980, 2989..3027		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o3.tm	Method	TBLASTX:Maize
Start	3054	End	3411
GI	none	Score	301
Exons	3054..3305, 3055..3411		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	3088	End	3324
GI	none	Score	184
Exons	3088..3324, 3207..3302		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o3.tw	Method	TBLASTX:Wheat
Start	3112	End	3513
GI	none	Score	317
Exons	3112..3414, 3117..3512, 3457..3513		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o4.tw	Method	TBLASTX:Wheat
Start	3946	End	4395
GI	none	Score	232
Exons	3946..4170, 3967..4170, 4014..4187, 4243..4395, 4254..4391		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	4069	End	4632
GI	5666795	Score	57
Exons	4069..4167, 4258..4395, 4450..4632		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	4918	End	5232
GI	none	Score	316
Exons	4918..5232, 5001..5222		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
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Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o6.tw	Method	TBLASTX:Wheat
Start	5046	End	5413
GI	none	Score	278
Exons	5046..5291, 5047..5334, 5345..5413, 5346..5405		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o5.tw	Method	TBLASTX:Wheat
Start	5420	End	8806
GI	none	Score	57
Exons	5420..5470, 5421..5717, 5600..5677, 5799..5873, 5904..6029, 8753..8806		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o2.gs	Method	GENSCAN
Start	6718	End	10588
GI	none	Score	.45
Exons	6718..7251, 7313..7594, 7841..8359, 8481..8725, 8749..8845, 8988..9155, 9191..9283, 9449..10296, 10492..10588		

Seq. No.	50525	Seq. ID	OJ990920_16.0419.C22
Gene No.	107235	Strand	-
Start	6718	End	10588
Name	OJ990920_16.0419.C22.o2.np	Method	AAT/NAP
Start	6748	End	10228
GI	5803259	Score	1796
Exons	6748..7421, 7526..7703, 7838..8872, 8948..10228		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	50526	Seq. ID	OJ990920_16.0419.C23
Gene No.	107236	Strand	+
Start	1056	End	2516
Name	OJ990920_16.0419.C23.o1.gs	Method	GENSCAN
Start	1056	End	2516
GI	none	Score	.61
Exons	1056..1129, 1279..1304, 1619..1705, 2398..2516		

Seq. No.	50526	Seq. ID	OJ990920_16.0419.C23
Gene No.	107237	Strand	-
Start	1604	End	2145
Name	OJ990920_16.0419.C23.o1.np	Method	AAT/NAP
Start	1604	End	2145
GI	6539585	Score	206
Exons	1604..1679, 1976..2145		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	50526	Seq. ID	OJ990920_16.0419.C23
Gene No.	107238	Strand	-
Start	3379	End	3695
Name	OJ990920_16.0419.C23.o2.gs	Method	GENSCAN
Start	3379	End	3695
GI	none	Score	.74

Exons 3379..3695

Seq. No.	50527	Seq. ID	OJ990920_16.0419.C24
Gene No.	107239	Strand	+
Start	143	End	1981
Name	OJ990920_16.0419.C24.o1.gs	Method	GENSCAN
Start	143	End	1011
GI	none	Score	.76
Exons	143..228, 482..678, 896..1011		

Seq. No.	50527	Seq. ID	OJ990920_16.0419.C24
Gene No.	107239	Strand	+
Start	143	End	1981
Name	OJ990920_16.0419.C24.o1.np	Method	AAT/NAP
Start	465	End	1981
GI	7340860	Score	54
Exons	465..660, 1952..1981		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50527	Seq. ID	OJ990920_16.0419.C24
Gene No.	107240	Strand	+
Start	3964	End	5782
Name	OJ990920_16.0419.C24.o2.np	Method	AAT/NAP
Start	3964	End	5782
GI	6650526	Score	838
Exons	3964..4846, 4982..5163, 5406..5495, 5589..5782		
GI Descrip.	(AF101045) putative transcription factor X1 [Oryza sativa subsp. japonica]		

Seq. No.	50527	Seq. ID	OJ990920_16.0419.C24
Gene No.	107240	Strand	+
Start	3964	End	5782
Name	OJ990920_16.0419.C24.o3.gs	Method	GENSCAN
Start	3964	End	5736
GI	none	Score	.72
Exons	3964..4846, 4982..5163, 5406..5495, 5589..5736		

Seq. No.	50527	Seq. ID	OJ990920_16.0419.C24
Gene No.	107240	Strand	+
Start	3964	End	5782
Name	OJ990920_16.0419.C24.o1.gp	Method	AAT/GAP
Start	4727	End	5714
GI	uC-osflcyp157c05b1	Score	968
Exons	4727..4846, 4982..5163, 5406..5495, 5589..5714		
GI Descrip.	'2149018/gb U70541 OSU70541 5.0e-25 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds'		

Seq. No.	50527	Seq. ID	OJ990920_16.0419.C24
Gene No.	107241	Strand	-
Start	1622	End	2717
Name	OJ990920_16.0419.C24.o2.gs	Method	GENSCAN
Start	1622	End	2717
GI	none	Score	.81
Exons	1622..1736, 1911..2050, 2107..2314, 2551..2717		

Seq. No.	50527	Seq. ID	OJ990920_16.0419.C24
Gene No.	107242	Strand	
Start	3964	End	4362
Name	OJ990920_16.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	3964	End	4344
GI	none	Score	169
Exons	3964..4158, 4080..4157, 4083..4163, 4150..4344		

Seq. No.	50527	Seq. ID	OJ990920_16.0419.C24
Gene No.	107242	Strand	
Start	3964	End	4362
Name	OJ990920_16.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	3973	End	4362
GI	none	Score	178
Exons	3973..4170, 4162..4227, 4249..4362		

Seq. No.	50527	Seq. ID	OJ990920_16.0419.C24
Gene No.	107243	Strand	
Start	4585	End	5717
Name	OJ990920_16.0419.C24.o2.tc	Method	TBLASTX:Cress
Start	4585	End	5708
GI	none	Score	137
Exons	4585..4851, 4963..5163, 5574..5708		

Seq. No.	50527	Seq. ID	OJ990920_16.0419.C24
Gene No.	107243	Strand	
Start	4585	End	5717
Name	OJ990920_16.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	5176	End	5717
GI	none	Score	61
Exons	5176..5238, 5403..5507, 5586..5717		

Seq. No.	50528	Seq. ID	OJ990920_16.0419.C25
Gene No.	107244	Strand	+
Start	1	End	1016
Name	OJ990920_16.0419.C25.o1.gp	Method	AAT/GAP
Start	1	End	148
GI	uC-osflcyp157c05b1	Score	252
Exons	1..148		
GI Descrip.	'2149018/gb U70541 OSU70541 5.0e-25 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds'		

Seq. No.	50528	Seq. ID	OJ990920_16.0419.C25
Gene No.	107244	Strand	+
Start	1	End	1016
Name	OJ990920_16.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	1016
GI	6650526	Score	549
Exons	1..307, 456..674, 795..1016		
GI Descrip.	(AF101045) putative transcription factor X1 [Oryza sativa subsp. japonica]		

Seq. No.	50528	Seq. ID	OJ990920_16.0419.C25
Gene No.	107244	Strand	+
Start	1	End	1016
Name	OJ990920_16.0419.C25.o1.gs	Method	GENSCAN

Start 140
GI none
Exons 140..307, 456..674, 792..980

End 980
Score .66

Seq. No. 50528
Gene No. 107245
Start 837
Name OJ990920_16.0419.C25.o1.tw
Start 5
GI none
Exons 5..172, 149..304, 456..524

Seq. ID OJ990920_16.0419.C25
Strand -
End 996
Method TBLASTX:Wheat
End 524
Score 142

Seq. No. 50528
Gene No. 107245
Start 837
Name OJ990920_16.0419.C25.o2.tm
Start 5
GI none
Exons 5..151, 233..301, 239..295, 410..547, 456..548, 573..668, 594..668, 684..719

Seq. ID OJ990920_16.0419.C25
Strand -
End 996
Method TBLASTX:Maize
End 719
Score 153

Seq. No. 50528
Gene No. 107245
Start 837
Name OJ990920_16.0419.C25.o1.tc
Start 452
GI none
Exons 452..577, 456..578, 569..682, 570..683

Seq. ID OJ990920_16.0419.C25
Strand -
End 996
Method TBLASTX:Cress
End 683
Score 122

Seq. No. 50528
Gene No. 107245
Start 837
Name OJ990920_16.0419.C25.o2.tc
Start 792
GI none
Exons 792..983

Seq. ID OJ990920_16.0419.C25
Strand -
End 996
Method TBLASTX:Cress
End 983
Score 179

Seq. No. 50528
Gene No. 107245
Start 837
Name OJ990920_16.0419.C25.o1.tm
Start 798
GI none
Exons 798..995

Seq. ID OJ990920_16.0419.C25
Strand -
End 996
Method TBLASTX:Maize
End 995
Score 205

Seq. No. 50528
Gene No. 107245
Start 837
Name OJ990920_16.0419.C25.o2.gp
Start 837
GI uC-osflcyp157c05a1
Exons 837..995
GI Descrip. '4558547/gb|AAD22640.1|AC007138_4 2.0e-13 (AC007138) hypothetical protein [Arabidopsis thaliana]'

Seq. ID OJ990920_16.0419.C25
Strand -
End 996
Method AAT/GAP
End 995
Score 292

Seq. No. 50528
Gene No. 107245

Seq. ID OJ990920_16.0419.C25
Strand -

Start	837	End	996
Name	OJ990920_16.0419.C25.o2.tw	Method	TBLASTX:Wheat
Start	849	End	996
GI	none	Score	172
Exons	849..995, 907..996		

Seq. No.	50529	Seq. ID	OJ990920_16.0419.C27
Gene No.	107246	Strand	+
Start	2843	End	4919
Name	OJ990920_16.0419.C27.o1.np	Method	AAT/NAP
Start	2843	End	4919
GI	3309082	Score	474
Exons	2843..2921, 3027..3109, 3212..3271, 3448..3556, 3677..3729, 4111..4191, 4342..4454, 4859..4919		
GI Descrip.	(AF076251) calcineurin B-like protein 1 [Arabidopsis thaliana]		

Seq. No.	50529	Seq. ID	OJ990920_16.0419.C27
Gene No.	107246	Strand	+
Start	2843	End	4919
Name	OJ990920_16.0419.C27.o1.gs	Method	GENSCAN
Start	3027	End	4454
GI	none	Score	.74
Exons	3027..3109, 3212..3271, 3400..3556, 3677..3729, 4342..4454		

Seq. No.	50529	Seq. ID	OJ990920_16.0419.C27
Gene No.	107247	Strand	+
Start	4931	End	4983
Name	OJ990920_16.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	3499	End	4927
GI	none	Score	75
Exons	3499..3555, 3678..3731, 3679..3732, 4093..4191, 4093..4194, 4331..4450, 4339..4482, 4341..4451, 4363..4458, 4855..4920, 4856..4927		

Seq. No.	50529	Seq. ID	OJ990920_16.0419.C27
Gene No.	107247	Strand	+
Start	4931	End	4983
Name	OJ990920_16.0419.C27.o1.gp	Method	AAT/GAP
Start	4931	End	4983
GI	LIB3475-012-P1-K1-B11	Score	102
Exons	4931..4983		
GI Descrip.	'5670155/gb AF161269.1 AF161269 3.0e-29 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	50530	Seq. ID	OJ990920_16.0419.C28
Gene No.	107248	Strand	-
Start	703	End	807
Name	OJ990920_16.0419.C28.o1.gs	Method	GENSCAN
Start	703	End	807
GI	none	Score	.73
Exons	703..807		

Seq. No.	50531	Seq. ID	OJ990920_16.0419.C30
Gene No.	107249	Strand	-
Start	255	End	889
Name	OJ990920_16.0419.C30.o1.gs	Method	GENSCAN
Start	255	End	889

GI none
Exons 255..357, 771..889

Score .67

Seq. No. 50532
Gene No. 107250
Start 49
Name OJ990920_16.0419.C31.o1.gs
Start 49
GI none
Exons 49..513

Seq. ID OJ990920_16.0419.C31
Strand +
End 513
Method GENSCAN
End 513
Score .83

Seq. No. 50532
Gene No. 107251
Start 1874
Name OJ990920_16.0419.C31.o1.np
Start 1874
GI 6630699
Exons 1874..1952

Seq. ID OJ990920_16.0419.C31
Strand +
End 1952
Method AAT/NAP
End 1952
Score 68

GI Descrip. (AP000969) hypothetical protein [Oryza sativa]
gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein
[Oryza sativa]

Seq. No. 50532
Gene No. 107252
Start 1871
Name OJ990920_16.0419.C31.o2.gs
Start 1871
GI none
Exons 1871..1946

Seq. ID OJ990920_16.0419.C31
Strand -
End 1946
Method GENSCAN
End 1946
Score .57

Seq. No. 50533
Gene No. 107253
Start 962
Name OJ990920_16.0419.C32.o1.gs
Start 962
GI none
Exons 962..1027

Seq. ID OJ990920_16.0419.C32
Strand -
End 1027
Method GENSCAN
End 1027
Score .71

Seq. No. 50534
Gene No. 107254
Start 322
Name OJ990920_16.0419.C35.o1.gs
Start 322
GI none
Exons 322..500

Seq. ID OJ990920_16.0419.C35
Strand -
End 500
Method GENSCAN
End 500
Score 1

Seq. No. 50535
Gene No. 107255
Start 1376
Name OJ990920_16.0419.C36.o1.gs
Start 1376
GI none
Exons 1376..1502, 1923..2082

Seq. ID OJ990920_16.0419.C36
Strand +
End 2082
Method GENSCAN
End 2082
Score .45

Seq. No. 50535
Gene No. 107256
Start 55

Seq. ID OJ990920_16.0419.C36
Strand -
End 1282

Name	OJ990920_16.0419.C36.o1.np	Method	AAT/NAP
Start	55	End	1282
GI	7339701	Score	51
Exons	55..83, 1228..1282		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	50535	Seq. ID	OJ990920_16.0419.C36
Gene No.	107257	Strand	-
Start	3506	End	3889
Name	OJ990920_16.0419.C36.o2.np	Method	AAT/NAP
Start	3506	End	3889
GI	6721516	Score	210
Exons	3506..3889		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	50536	Seq. ID	OJ990920_16.0419.C37
Gene No.	107258	Strand	+
Start	3	End	938
Name	OJ990920_16.0419.C37.o1.gs	Method	GENSCAN
Start	3	End	938
GI	none	Score	.75
Exons	3..213, 336..938		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o6.tm	Method	TBLASTX:Maize
Start	408	End	768
GI	none	Score	102
Exons	408..500, 410..502, 529..768, 537..605, 633..761		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o3.tw	Method	TBLASTX:Wheat
Start	544	End	861
GI	none	Score	233
Exons	544..861, 558..779		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o1.np	Method	AAT/NAP
Start	580	End	3686
GI	4416302	Score	3435
Exons	580..3686		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o4.tm	Method	TBLASTX:Maize
Start	771	End	1163
GI	none	Score	86
Exons	771..902, 772..900, 890..1096, 891..1112, 891..1163, 895..1161		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
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Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o2.tw	Method	TBLASTX:Wheat
Start	933	End	1506
GI	none	Score	248
Exons	933..1163, 934..1179, 973..1188, 1219..1497, 1219..1506		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o2.tm	Method	TBLASTX:Maize
Start	1167	End	1964
GI	none	Score	101
Exons	1167..1241, 1168..1239, 1239..1817, 1240..1857, 1866..1964, 1870..1920		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o3.ts	Method	TBLASTX:Soybean
Start	1348	End	1809
GI	none	Score	340
Exons	1348..1809, 1377..1538, 1605..1757		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o2.tc	Method	TBLASTX:Cress
Start	1390	End	1806
GI	none	Score	200
Exons	1390..1806		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o5.tw	Method	TBLASTX:Wheat
Start	1591	End	1922
GI	none	Score	100
Exons	1591..1668, 1675..1821, 1684..1821, 1685..1828, 1843..1920, 1869..1922		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o5.tm	Method	TBLASTX:Maize
Start	2014	End	2316
GI	none	Score	303
Exons	2014..2277, 2023..2262, 2049..2276, 2266..2316, 2268..2315		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	2044	End	2657
GI	5509260	Score	723
Exons	2044..2652, 2137..2649, 2139..2657, 2394..2657		
GI Descrip.	-		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	2173	End	2649
GI	none	Score	81
Exons	2173..2262, 2269..2295, 2286..2639, 2296..2643, 2302..2430, 2303..2506, 2304..2642, 2473..2649		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	2266	End	2538
GI	none	Score	200
Exons	2266..2538, 2266..2412		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o3.tm	Method	TBLASTX:Maize
Start	2317	End	2784
GI	none	Score	573
Exons	2317..2784, 2317..2436, 2319..2783		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o7.tm	Method	TBLASTX:Maize
Start	2826	End	3018
GI	none	Score	256
Exons	2826..3017, 2827..3018		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o4.tw	Method	TBLASTX:Wheat
Start	2833	End	3264
GI	none	Score	102
Exons	2833..2994, 3007..3264		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	3019	End	3766
GI	none	Score	797
Exons	3019..3591, 3021..3587, 3566..3667, 3593..3694, 3594..3680, 3594..3695, 3737..3766		

Seq. No.	50537	Seq. ID	OJ990920_16.0419.C38
Gene No.	107259	Strand	+
Start	580	End	3766
Name	OJ990920_16.0419.C38.o2.ts	Method	TBLASTX:Soybean
Start	3028	End	3630
GI	none	Score	295

Exons 3028..3411, 3033..3404, 3040..3411, 3445..3630, 3453..3629

Seq. No.	50538	Seq. ID	OJ990630_08.0421.C2
Gene No.	107260	Strand	-
Start	84	End	861
Name	OJ990630_08.0421.C2.o1.np	Method	AAT/NAP
Start	84	End	861
GI	6967112	Score	115
Exons	84..246, 560..861		
GI Descrip.	(AL138652) putative protein [Arabidopsis thaliana]		

Seq. No.	50538	Seq. ID	OJ990630_08.0421.C2
Gene No.	107261	Strand	-
Start	1517	End	2024
Name	OJ990630_08.0421.C2.o2.gs	Method	GENSCAN
Start	1517	End	2024
GI	none	Score	.81
Exons	1517..1625, 1954..2024		

Seq. No.	50538	Seq. ID	OJ990630_08.0421.C2
Gene No.	107262	Strand	-
Start	2315	End	2566
Name	OJ990630_08.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	566	End	871
GI	none	Score	78
Exons	566..691, 582..683, 678..740, 740..865, 776..871		

Seq. No.	50538	Seq. ID	OJ990630_08.0421.C2
Gene No.	107262	Strand	-
Start	2315	End	2566
Name	OJ990630_08.0421.C2.o1.gp	Method	AAT/GAP
Start	2315	End	2566
GI	48137_1.R1084	Score	487
Exons	2315..2566		
GI Descrip.	'4539293/emb CAB39596.1 9.0e-54 (AL049480) putative membrane transporter [Arabidopsis thaliana]'		

Seq. No.	50539	Seq. ID	OJ990630_08.0421.C3
Gene No.	107263	Strand	-
Start	1	End	1685
Name	OJ990630_08.0421.C3.o1.gp	Method	AAT/GAP
Start	1	End	377
GI	48137_1.R1084	Score	722
Exons	1..377		
GI Descrip.	'4539293/emb CAB39596.1 9.0e-54 (AL049480) putative membrane transporter [Arabidopsis thaliana]'		

Seq. No.	50539	Seq. ID	OJ990630_08.0421.C3
Gene No.	107263	Strand	-
Start	1	End	1685
Name	OJ990630_08.0421.C3.o2.tm	Method	TBLASTX:Maize
Start	1	End	326
GI	none	Score	152
Exons	1..228, 1..42, 3..326		

Seq. No.	50539	Seq. ID	OJ990630_08.0421.C3
Gene No.	107263	Strand	-

Start	1	End	1685
Name	OJ990630_08.0421.C3.o1.np	Method	AAT/NAP
Start	1	End	1571
GI	7484783	Score	859
Exons	1..614, 644..1035, 1063..1474, 1523..1571		
GI Descrip.	ABC-type transport protein F14M19.30 - Arabidopsis thaliana gi 4539293 emb CAB39596.1 (AL049480) putative membrane transporter [Arabidopsis thaliana] gi 7269425 emb CAB81385.1 (AL161563) putative membrane transporter [Arabidopsis thaliana]		

Seq. No.	50539	Seq. ID	OJ990630_08.0421.C3
Gene No.	107263	Strand	-
Start	1	End	1685
Name	OJ990630_08.0421.C3.o1.tc	Method	TBLASTX:Cress
Start	3	End	341
GI	none	Score	268
Exons	3..341		

Seq. No.	50539	Seq. ID	OJ990630_08.0421.C3
Gene No.	107263	Strand	-
Start	1	End	1685
Name	OJ990630_08.0421.C3.o1.gs	Method	GENSCAN
Start	27	End	1685
GI	none	Score	.99
Exons	27..1685		

Seq. No.	50539	Seq. ID	OJ990630_08.0421.C3
Gene No.	107263	Strand	-
Start	1	End	1685
Name	OJ990630_08.0421.C3.o2.tc	Method	TBLASTX:Cress
Start	681	End	1001
GI	none	Score	71
Exons	681..1001, 718..861		

Seq. No.	50539	Seq. ID	OJ990630_08.0421.C3
Gene No.	107263	Strand	-
Start	1	End	1685
Name	OJ990630_08.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	714	End	1236
GI	none	Score	65
Exons	714..1019, 1068..1235, 1102..1233, 1156..1236		

Seq. No.	50539	Seq. ID	OJ990630_08.0421.C3
Gene No.	107263	Strand	-
Start	1	End	1685
Name	OJ990630_08.0421.C3.o1.ts	Method	TBLASTX:Soybean
Start	780	End	1436
GI	none	Score	90
Exons	780..863, 909..1019, 1068..1238, 1326..1436		

Seq. No.	50540	Seq. ID	OJ990630_08.0421.C4
Gene No.	107264	Strand	+
Start	9637	End	11000
Name	OJ990630_08.0421.C4.o2.gs	Method	GENSCAN
Start	9637	End	11000
GI	none	Score	.41
Exons	9637..9680, 9941..9971, 10761..11000		

Seq. No.	50540	Seq. ID	OJ990630_08.0421.C4
Gene No.	107265	Strand	-
Start	1	End	2889
Name	OJ990630_08.0421.C4.o1.np	Method	AAT/NAP
Start	1	End	2889
GI	7228442	Score	1171
Exons	1..55, 760..2305, 2333..2508, 2556..2889		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	50540	Seq. ID	OJ990630_08.0421.C4
Gene No.	107266	Strand	-
Start	5625	End	6391
Name	OJ990630_08.0421.C4.o2.np	Method	AAT/NAP
Start	5625	End	6391
GI	5902448	Score	1093
Exons	5625..6391		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	50540	Seq. ID	OJ990630_08.0421.C4
Gene No.	107267	Strand	-
Start	12276	End	15462
Name	OJ990630_08.0421.C4.o1.tw	Method	TBLASTX:Wheat
Start	1128	End	1514
GI	none	Score	88
Exons	1128..1328, 1215..1328, 1225..1329, 1341..1514, 1371..1490		

Seq. No.	50540	Seq. ID	OJ990630_08.0421.C4
Gene No.	107267	Strand	-
Start	12276	End	15462
Name	OJ990630_08.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	1239	End	1826
GI	none	Score	36
Exons	1239..1319, 1276..1320, 1359..1595, 1359..1649, 1450..1650, 1704..1826, 1708..1821		

Seq. No.	50540	Seq. ID	OJ990630_08.0421.C4
Gene No.	107267	Strand	-
Start	12276	End	15462
Name	OJ990630_08.0421.C4.o2.tw	Method	TBLASTX:Wheat
Start	6017	End	6289
GI	none	Score	193
Exons	6017..6289		

Seq. No.	50540	Seq. ID	OJ990630_08.0421.C4
Gene No.	107267	Strand	-
Start	12276	End	15462
Name	OJ990630_08.0421.C4.o3.gs	Method	GENSCAN
Start	12276	End	15400
GI	none	Score	.68
Exons	12276..12416, 12634..12759, 12911..13294, 13485..13672, 14277..14360, 14931..15169, 15222..15400		

Seq. No.	50540	Seq. ID	OJ990630_08.0421.C4
Gene No.	107267	Strand	-

Start	12276	End	15462
Name	OJ990630_08.0421.C4.o4.np	Method	AAT/NAP
Start	13631	End	14914
GI	5430765	Score	182
Exons	13631..13885, 14685..14914		
GI Descrip.	(AC007504) Hypothetical Protein [Arabidopsis thaliana]		

Seq. No.	50540	Seq. ID	OJ990630_08.0421.C4
Gene No.	107267	Strand	-
Start	12276	End	15462
Name	OJ990630_08.0421.C4.o3.np	Method	AAT/NAP
Start	13646	End	15462
GI	4678214	Score	213
Exons	13646..13852, 14655..14993, 15418..15462		
GI Descrip.	(AC007134) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50541	Seq. ID	OJ990630_08.0421.C5
Gene No.	107268	Strand	+
Start	1496	End	2713
Name	OJ990630_08.0421.C5.o1.np	Method	AAT/NAP
Start	1496	End	2713
GI	7228450	Score	275
Exons	1496..1581, 1715..1856, 1942..2014, 2673..2713		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	50541	Seq. ID	OJ990630_08.0421.C5
Gene No.	107269	Strand	+
Start	6037	End	6732
Name	OJ990630_08.0421.C5.o3.gs	Method	GENSCAN
Start	6037	End	6732
GI	none	Score	.76
Exons	6037..6147, 6448..6579, 6622..6732		

Seq. No.	50541	Seq. ID	OJ990630_08.0421.C5
Gene No.	107270	Strand	-
Start	252	End	2123
Name	OJ990630_08.0421.C5.o1.gs	Method	GENSCAN
Start	252	End	2123
GI	none	Score	.53
Exons	252..552, 2103..2123		

Seq. No.	50541	Seq. ID	OJ990630_08.0421.C5
Gene No.	107271	Strand	-
Start	3855	End	4875
Name	OJ990630_08.0421.C5.o2.gs	Method	GENSCAN
Start	3855	End	4875
GI	none	Score	.61
Exons	3855..4045, 4388..4521, 4784..4875		

Seq. No.	50541	Seq. ID	OJ990630_08.0421.C5
Gene No.	107272	Strand	-
Start	7198	End	7307
Name	OJ990630_08.0421.C5.o4.gs	Method	GENSCAN
Start	7198	End	7307
GI	none	Score	.62
Exons	7198..7307		

Seq. No.	50542	Seq. ID	OJ990630_08.0421.C7
Gene No.	107273	Strand	+
Start	4826	End	4905
Name	OJ990630_08.0421.C7.o1.np	Method	AAT/NAP
Start	4826	End	4905
GI	6630699	Score	87
Exons	4826..4905		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	50542	Seq. ID	OJ990630_08.0421.C7
Gene No.	107274	Strand	+
Start	5032	End	7519
Name	OJ990630_08.0421.C7.o2.np	Method	AAT/NAP
Start	5032	End	7519
GI	6539570	Score	139
Exons	5032..5234, 5380..5466, 7486..7519		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	50542	Seq. ID	OJ990630_08.0421.C7
Gene No.	107275	Strand	-
Start	2869	End	7386
Name	OJ990630_08.0421.C7.o2.gs	Method	GENSCAN
Start	2869	End	7386
GI	none	Score	.66
Exons	2869..3077, 5647..5676, 6289..6355, 7324..7386		

Seq. No.	50543	Seq. ID	OJ990630_08.0421.C8
Gene No.	107276	Strand	+
Start	912	End	7769
Name	OJ990630_08.0421.C8.o1.gs	Method	GENSCAN
Start	912	End	6379
GI	none	Score	.65
Exons	912..1036, 1158..1378, 1451..1607, 1775..2006, 6215..6379		

Seq. No.	50543	Seq. ID	OJ990630_08.0421.C8
Gene No.	107276	Strand	+
Start	912	End	7769
Name	OJ990630_08.0421.C8.o2.np	Method	AAT/NAP
Start	5959	End	7769
GI	7340909	Score	132
Exons	5959..6025, 7256..7769		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	50543	Seq. ID	OJ990630_08.0421.C8
Gene No.	107277	Strand	-
Start	975	End	1604
Name	OJ990630_08.0421.C8.o1.np	Method	AAT/NAP
Start	975	End	1604
GI	6006381	Score	215
Exons	975..1146, 1333..1604		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	50543	Seq. ID	OJ990630_08.0421.C8
Gene No.	107278	Strand	-
Start	7664	End	8971

Name OJ990630_08.0421.C8.o2.gs
 Start 7664
 GI none
 Exons 7664..7862, 8893..8971

Method GENSCAN
 End 8971
 Score .54

Seq. No. 50544
 Gene No. 107279
 Start 149
 Name OJ990630_08.0421.C9.o1.gs
 Start 149
 GI none
 Exons 149..297, 920..1005

Seq. ID OJ990630_08.0421.C9
 Strand -
 End 1005
 Method GENSCAN
 End 1005
 Score .64

Seq. No. 50545
 Gene No. 107280
 Start 542
 Name OJ990630_08.0421.C10.o1.gs
 Start 542
 GI none
 Exons 542..785, 2239..2321

Seq. ID OJ990630_08.0421.C10
 Strand -
 End 2321
 Method GENSCAN
 End 2321
 Score .59

Seq. No. 50546
 Gene No. 107281
 Start 1086
 Name OJ990630_08.0421.C11.o1.np
 Start 1086
 GI 6721512
 Exons 1086..1203, 1231..1368, 2724..2819
 GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. ID OJ990630_08.0421.C11
 Strand +
 End 4980
 Method AAT/NAP
 End 2819
 Score 59

Seq. No. 50546
 Gene No. 107281
 Start 1086
 Name OJ990630_08.0421.C11.o1.gs
 Start 1268
 GI none
 Exons 1268..1352, 1538..1610, 1937..2132, 2336..2690, 2858..2982, 3301..3359, 3430..4063, 4582..4980

Seq. ID OJ990630_08.0421.C11
 Strand +
 End 4980
 Method GENSCAN
 End 4980
 Score .66

Seq. No. 50546
 Gene No. 107281
 Start 1086
 Name OJ990630_08.0421.C11.o2.np
 Start 2034
 GI 6721558
 Exons 2034..2132, 2857..3003, 3434..3633
 GI Descrip. (AP001073) hypothetical protein [Oryza sativa]
 gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]

Seq. ID OJ990630_08.0421.C11
 Strand +
 End 4980
 Method AAT/NAP
 End 3633
 Score 237

Seq. No. 50546
 Gene No. 107281
 Start 1086
 Name OJ990630_08.0421.C11.o3.np
 Start 2072
 GI 6721561
 Exons 2072..2141, 3051..3229, 3301..3359, 3430..4192

Seq. ID OJ990630_08.0421.C11
 Strand +
 End 4980
 Method AAT/NAP
 End 4192
 Score 962

GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]
gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	50546	Seq. ID	OJ990630_08.0421.C11
Gene No.	107282	Strand	-
Start	5676	End	6490
Name	OJ990630_08.0421.C11.o2.gs	Method	GENSCAN
Start	5676	End	6445
GI	none	Score	.91
Exons	5676..6445		

Seq. No.	50546	Seq. ID	OJ990630_08.0421.C11
Gene No.	107282	Strand	-
Start	5676	End	6490
Name	OJ990630_08.0421.C11.o4.np	Method	AAT/NAP
Start	5679	End	6490
GI	7228457	Score	739
Exons	5679..6490		

GI Descrip. (AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]

Seq. No.	50546	Seq. ID	OJ990630_08.0421.C11
Gene No.	107282	Strand	-
Start	5676	End	6490
Name	OJ990630_08.0421.C11.o1.tw	Method	TBLASTX:Wheat
Start	5688	End	6296
GI	none	Score	69
Exons	5688..5819, 5689..5814, 5844..6296, 6040..6147		

Seq. No.	50546	Seq. ID	OJ990630_08.0421.C11
Gene No.	107282	Strand	-
Start	5676	End	6490
Name	OJ990630_08.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	5724	End	5990
GI	none	Score	153
Exons	5724..5798, 5782..5823, 5808..5990		

Seq. No.	50547	Seq. ID	OJ990630_08.0421.C12
Gene No.	107283	Strand	-
Start	1	End	4934
Name	OJ990630_08.0421.C12.o1.np	Method	AAT/NAP
Start	1	End	4718
GI	5922631	Score	1637
Exons	1..68, 108..2153, 2277..2531, 2574..2997, 3253..3336, 4684..4718		

GI Descrip. (AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa]
gi|6016864|dbj|BAA85207.1| (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ

Seq. No.	50547	Seq. ID	OJ990630_08.0421.C12
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Gene No.	107283	Strand	-
Start	1	End	4934
Name	OJ990630_08.0421.C12.o1.gs	Method	GENSCAN
Start	29	End	4934
GI	none	Score	.44
Exons	29..312, 324..1102, 1194..1280, 1449..1749, 1808..1933, 1993..3535, 3953..4226, 4311..4489, 4811..4934		

Seq. No.	50547	Seq. ID	OJ990630_08.0421.C12
Gene No.	107283	Strand	-
Start	1	End	4934
Name	OJ990630_08.0421.C12.o2.np	Method	AAT/NAP
Start	4354	End	4934
GI	7523517	Score	145
Exons	4354..4476, 4627..4934		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	50547	Seq. ID	OJ990630_08.0421.C12
Gene No.	107284	Strand	-
Start	5378	End	5744
Name	OJ990630_08.0421.C12.o2.tw	Method	TBLASTX:Wheat
Start	452	End	859
GI	none	Score	59
Exons	452..523, 452..607, 635..859		

Seq. No.	50547	Seq. ID	OJ990630_08.0421.C12
Gene No.	107284	Strand	-
Start	5378	End	5744
Name	OJ990630_08.0421.C12.o4.tw	Method	TBLASTX:Wheat
Start	929	End	1202
GI	none	Score	75
Exons	929..1123, 1098..1202		

Seq. No.	50547	Seq. ID	OJ990630_08.0421.C12
Gene No.	107284	Strand	-
Start	5378	End	5744
Name	OJ990630_08.0421.C12.o1.tw	Method	TBLASTX:Wheat
Start	1209	End	1973
GI	none	Score	127
Exons	1209..1370, 1210..1371, 1518..1754, 1528..1752, 1791..1973, 1864..1965		

Seq. No.	50547	Seq. ID	OJ990630_08.0421.C12
Gene No.	107284	Strand	-
Start	5378	End	5744
Name	OJ990630_08.0421.C12.o3.tw	Method	TBLASTX:Wheat
Start	2604	End	3002
GI	none	Score	83
Exons	2604..2879, 2605..2832, 2838..2951, 2890..2940, 2952..3002		

Seq. No.	50547	Seq. ID	OJ990630_08.0421.C12
Gene No.	107284	Strand	-
Start	5378	End	5744
Name	OJ990630_08.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	2718	End	2957
GI	none	Score	186
Exons	2718..2957		

Seq. No.	50547	Seq. ID	OJ990630_08.0421.C12
Gene No.	107284	Strand	-
Start	5378	End	5744
Name	OJ990630_08.0421.C12.o2.gs	Method	GENSCAN
Start	5378	End	5744
GI	none	Score	.47
Exons	5378..5432, 5558..5744		
Seq. No.	50548	Seq. ID	OJ990630_08.0421.C13
Gene No.	107285	Strand	+
Start	9	End	3450
Name	OJ990630_08.0421.C13.o1.gs	Method	GENSCAN
Start	9	End	3437
GI	none	Score	.73
Exons	9..74, 103..327, 1261..1347, 1443..1532, 2104..2184, 2319..2513, 2859..3437		
Seq. No.	50548	Seq. ID	OJ990630_08.0421.C13
Gene No.	107285	Strand	+
Start	9	End	3450
Name	OJ990630_08.0421.C13.o1.np	Method	AAT/NAP
Start	1213	End	3450
GI	6665545	Score	735
Exons	1213..1347, 1443..1532, 2104..2184, 2319..2513, 2897..3450		
GI Descrip.	(AC013289) putative regulator of chromosome condensation [Arabidopsis thaliana]		
Seq. No.	50548	Seq. ID	OJ990630_08.0421.C13
Gene No.	107285	Strand	+
Start	9	End	3450
Name	OJ990630_08.0421.C13.o1.ts	Method	TBLASTX:Soybean
Start	1285	End	3398
GI	none	Score	101
Exons	1285..1347, 1299..1343, 1419..1541, 2104..2160, 2319..2420, 3029..3154, 3228..3398, 3239..3328		
Seq. No.	50548	Seq. ID	OJ990630_08.0421.C13
Gene No.	107285	Strand	+
Start	9	End	3450
Name	OJ990630_08.0421.C13.o2.tm	Method	TBLASTX:Maize
Start	2413	End	3015
GI	none	Score	115
Exons	2413..2514, 2414..2515, 2850..3014, 2857..3015, 2858..3013		
Seq. No.	50548	Seq. ID	OJ990630_08.0421.C13
Gene No.	107285	Strand	+
Start	9	End	3450
Name	OJ990630_08.0421.C13.o1.tc	Method	TBLASTX:Cress
Start	3144	End	3449
GI	none	Score	288
Exons	3144..3449, 3225..3449		
Seq. No.	50548	Seq. ID	OJ990630_08.0421.C13
Gene No.	107285	Strand	+
Start	9	End	3450
Name	OJ990630_08.0421.C13.o1.tm	Method	TBLASTX:Maize

Start	3194	End	3449
GI	none	Score	151
Exons	3194..3316, 3195..3449, 3225..3449, 3240..3347, 3267..3449		

Seq. No.	50549	Seq. ID	OJ990630_08.0421.C14
Gene No.	107286	Strand	+
Start	1	End	3710
Name	OJ990630_08.0421.C14.o1.np	Method	AAT/NAP
Start	1	End	3710
GI	2829910	Score	1085
Exons	1..1060, 1459..1625, 1938..2381, 3557..3710		
GI Descrip.	(AC002291) Unknown protein, contains regulator of chromosome condensation motifs [Arabidopsis thaliana]		

Seq. No.	50549	Seq. ID	OJ990630_08.0421.C14
Gene No.	107286	Strand	+
Start	1	End	3710
Name	OJ990630_08.0421.C14.o1.tc	Method	TBLASTX:Cress
Start	1	End	391
GI	none	Score	361
Exons	1..294, 2..295, 191..295, 227..391		

Seq. No.	50549	Seq. ID	OJ990630_08.0421.C14
Gene No.	107286	Strand	+
Start	1	End	3710
Name	OJ990630_08.0421.C14.o1.ts	Method	TBLASTX:Soybean
Start	23	End	454
GI	none	Score	80
Exons	23..235, 65..454, 67..453, 77..454		

Seq. No.	50549	Seq. ID	OJ990630_08.0421.C14
Gene No.	107286	Strand	+
Start	1	End	3710
Name	OJ990630_08.0421.C14.o3.tm	Method	TBLASTX:Maize
Start	44	End	289
GI	none	Score	69
Exons	44..133, 84..278, 85..288, 86..289		

Seq. No.	50549	Seq. ID	OJ990630_08.0421.C14
Gene No.	107286	Strand	+
Start	1	End	3710
Name	OJ990630_08.0421.C14.o1.gs	Method	GENSCAN
Start	104	End	3686
GI	none	Score	.53
Exons	104..1060, 1459..1605, 2023..2381, 3024..3152, 3557..3686		

Seq. No.	50549	Seq. ID	OJ990630_08.0421.C14
Gene No.	107286	Strand	+
Start	1	End	3710
Name	OJ990630_08.0421.C14.o1.tm	Method	TBLASTX:Maize
Start	295	End	767
GI	none	Score	623
Exons	295..453, 296..754, 297..767, 363..767		

Seq. No.	50549	Seq. ID	OJ990630_08.0421.C14
Gene No.	107286	Strand	+
Start	1	End	3710

Name	OJ990630_08.0421.C14.o2.ts	Method	TBLASTX:Soybean
Start	455	End	841
GI	none	Score	215
Exons	455..634, 464..580, 465..587, 493..618, 673..822, 674..841, 722..832		

Seq. No.	50549	Seq. ID	OJ990630_08.0421.C14
Gene No.	107286	Strand	+
Start	1	End	3710
Name	OJ990630_08.0421.C14.o2.tm	Method	TBLASTX:Maize
Start	853	End	1577
GI	none	Score	185
Exons	853..993, 856..999, 1003..1071, 1004..1063, 1446..1577, 1447..1575		

Seq. No.	50549	Seq. ID	OJ990630_08.0421.C14
Gene No.	107286	Strand	+
Start	1	End	3710
Name	OJ990630_08.0421.C14.o3.ts	Method	TBLASTX:Soybean
Start	853	End	984
GI	none	Score	78
Exons	853..984, 856..921		

Seq. No.	50550	Seq. ID	OJ990630_08.0421.C15
Gene No.	107287	Strand	-
Start	1	End	2941
Name	OJ990630_08.0421.C15.o1.np	Method	AAT/NAP
Start	1	End	2941
GI	6721547	Score	85
Exons	1..44, 2857..2941		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	50550	Seq. ID	OJ990630_08.0421.C15
Gene No.	107287	Strand	-
Start	1	End	2941
Name	OJ990630_08.0421.C15.o1.gp	Method	AAT/GAP
Start	1089	End	1405
GI	2310215	Score	618
Exons	1089..1405		

Seq. No.	50551	Seq. ID	OJ990630_08.0421.C16
Gene No.	107288	Strand	+
Start	107	End	466
Name	OJ990630_08.0421.C16.o1.gp	Method	AAT/GAP
Start	107	End	466
GI	2309883	Score	470
Exons	107..466		
GI Descrip.	2149018/gb U70541 OSU70541 5.0e-25 Oryza sativa putative ADP-glucose pyrophosphorylase subunit SH2 and putative NADPH-dependent reductase A1 genes, complete cds		

Seq. No.	50552	Seq. ID	OJ990630_08.0421.C17
Gene No.	107289	Strand	+
Start	1	End	1766
Name	OJ990630_08.0421.C17.o1.np	Method	AAT/NAP
Start	1	End	1766
GI	7340868	Score	209

Exons 1..20, 769..956, 1664..1766
GI Descrip. (AP001551) hypothetical protein [Oryza sativa]

Seq. No.	50553	Seq. ID	OJ990630_08.0421.C18
Gene No.	107290	Strand	+
Start	1	End	13542
Name	OJ990630_08.0421.C18.o3.np	Method	AAT/NAP
Start	1	End	10892
GI	5441880	Score	476

Exons 1..24, 3455..3713, 5150..5194, 5709..5893, 6040..6357, 6928..7233, 7322..7553, 10816..10892
GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No.	50553	Seq. ID	OJ990630_08.0421.C18
Gene No.	107290	Strand	+
Start	1	End	13542
Name	OJ990630_08.0421.C18.o1.gs	Method	GENSCAN
Start	184	End	9393
GI	none	Score	.55

Exons 184..245, 969..1132, 1223..1288, 1352..1662, 3583..3700, 5099..5292, 5971..6086, 6432..6586, 6638..6846, 6928..7226, 7315..7609, 7779..7839, 7922..8053, 8124..8201, 8670..8747, 9059..9256, 9293..9393

Seq. No.	50553	Seq. ID	OJ990630_08.0421.C18
Gene No.	107290	Strand	+
Start	1	End	13542
Name	OJ990630_08.0421.C18.o2.np	Method	AAT/NAP
Start	786	End	6002
GI	7340881	Score	198

Exons 786..876, 1013..1146, 1294..1682, 3072..3184, 3290..3320, 5975..6002

GI Descrip. (AP001551) hypothetical protein [Oryza sativa]

Seq. No.	50553	Seq. ID	OJ990630_08.0421.C18
Gene No.	107290	Strand	+
Start	1	End	13542
Name	OJ990630_08.0421.C18.o4.np	Method	AAT/NAP
Start	9383	End	13482
GI	6691716	Score	1281

Exons 9383..9452, 11668..11813, 11896..12002, 12079..12254, 12332..12519, 12594..12697, 12848..12960, 13034..13482

GI Descrip. (AP000492) hypothetical protein [Oryza sativa]
gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]

Seq. No.	50553	Seq. ID	OJ990630_08.0421.C18
Gene No.	107290	Strand	+
Start	1	End	13542
Name	OJ990630_08.0421.C18.o2.gs	Method	GENSCAN
Start	10810	End	13542
GI	none	Score	.87

Exons 10810..10815, 11004..11270, 11346..11427, 11663..11813, 11896..12254, 12332..12410, 12848..12960, 13034..13542

Seq. No.	50553	Seq. ID	OJ990630_08.0421.C18
Gene No.	107291	Strand	+
Start	13834	End	14511
Name	OJ990630_08.0421.C18.o3.gs	Method	GENSCAN
Start	13834	End	14511
GI	none	Score	.4
Exons	13834..13887, 14161..14218, 14257..14511		

Seq. No.	50553	Seq. ID	OJ990630_08.0421.C18
Gene No.	107292	Strand	-
Start	545	End	1078
Name	OJ990630_08.0421.C18.o1.np	Method	AAT/NAP
Start	545	End	1078
GI	6721559	Score	235
Exons	545..1078		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1 (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	50553	Seq. ID	OJ990630_08.0421.C18
Gene No.	107293	Strand	-
Start	13816	End	14541
Name	OJ990630_08.0421.C18.o5.np	Method	AAT/NAP
Start	13816	End	14541
GI	5902445	Score	1037
Exons	13816..14541		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	50553	Seq. ID	OJ990630_08.0421.C18
Gene No.	107293	Strand	-
Start	13816	End	14541
Name	OJ990630_08.0421.C18.o1.tw	Method	TBLASTX:Wheat
Start	13828	End	14393
GI	none	Score	77
Exons	13828..13962, 14124..14393, 14134..14238, 14287..14373		

Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o1.np	Method	AAT/NAP
Start	1	End	5152
GI	5922631	Score	5228
Exons	1..1820, 2424..3350, 3477..3625, 3668..4253, 4299..4453, 4499..4529, 4788..5152		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1 (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ		

Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o2.tw	Method	TBLASTX:Wheat
Start	2	End	385

GI	none	Score	94
Exons	2..139, 2..184, 75..185, 178..384, 179..385		
Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o1.tm	Method	TBLASTX:Maize
Start	80	End	391
GI	none	Score	91
Exons	80..184, 81..185, 172..390, 182..391		
Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o1.gs	Method	GENSCAN
Start	189	End	5071
GI	none	Score	.54
Exons	189..862, 940..1045, 1371..1838, 1846..2091, 2502..2915, 2979..3227, 3387..3828, 3865..5071		
Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o4.tw	Method	TBLASTX:Wheat
Start	694	End	1124
GI	none	Score	131
Exons	694..978, 779..976, 934..1119, 1014..1124, 1026..1121		
Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o5.tw	Method	TBLASTX:Wheat
Start	1161	End	1590
GI	none	Score	118
Exons	1161..1433, 1453..1590		
Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o2.tm	Method	TBLASTX:Maize
Start	1248	End	1693
GI	none	Score	41
Exons	1248..1274, 1272..1415, 1284..1400, 1453..1692, 1454..1693		
Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o1.ts	Method	TBLASTX:Soybean
Start	1450	End	1791
GI	none	Score	106
Exons	1450..1791, 1586..1744		
Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o1.tw	Method	TBLASTX:Wheat
Start	1636	End	2053

GI	none	Score	99
Exons	1636..1863, 1637..1789, 1866..2051, 1868..2053		
Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o3.tm	Method	TBLASTX:Maize
Start	1922	End	2274
GI	none	Score	158
Exons	1922..2161, 1932..2162, 2143..2274		
Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o7.tw	Method	TBLASTX:Wheat
Start	2084	End	2287
GI	none	Score	82
Exons	2084..2287, 2084..2161, 2143..2274		
Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o3.tw	Method	TBLASTX:Wheat
Start	2288	End	3084
GI	none	Score	148
Exons	2288..2386, 2389..2523, 2627..2863, 2629..2859, 2908..3084		
Seq. No.	50554	Seq. ID	OJ990630_08.0421.C19
Gene No.	107294	Strand	-
Start	1	End	5152
Name	OJ990630_08.0421.C19.o6.tw	Method	TBLASTX:Wheat
Start	3661	End	4063
GI	none	Score	124
Exons	3661..4062, 3794..4063		
Seq. No.	50555	Seq. ID	OJ990630_08.0421.C20
Gene No.	107295	Strand	+
Start	2193	End	2451
Name	OJ990630_08.0421.C20.o1.gp	Method	AAT/GAP
Start	2193	End	2451
GI	none	Score	486
Exons	2193..2451		
Seq. No.	50555	Seq. ID	OJ990630_08.0421.C20
Gene No.	107296	Strand	-
Start	1088	End	2406
Name	OJ990630_08.0421.C20.o2.gs	Method	GENSCAN
Start	1088	End	2406
GI	none	Score	.96
Exons	1088..1114, 2235..2406		
Seq. No.	50556	Seq. ID	OJ990630_08.0421.C21
Gene No.	107297	Strand	+
Start	1	End	1617
Name	OJ990630_08.0421.C21.o1.np	Method	AAT/NAP
Start	1	End	1617
GI	4567251	Score	744

Exons 1..233, 593..688, 885..982, 1070..1139, 1227..1298, 1439..1617
GI Descrip. (AC007070) unknown protein [Arabidopsis thaliana]

Seq. No.	50556	Seq. ID	OJ990630_08.0421.C21
Gene No.	107297	Strand	+
Start	1	End	1617
Name	OJ990630_08.0421.C21.o1.tm	Method	TBLASTX:Maize
Start	2	End	960
GI	none	Score	364
Exons	2..229, 3..233, 181..240, 333..404, 333..410, 334..405, 334..411, 486..662, 486..662, 488..697, 493..687, 882..959, 882..959, 883..960, 883..960		

Seq. No.	50556	Seq. ID	OJ990630_08.0421.C21
Gene No.	107297	Strand	+
Start	1	End	1617
Name	OJ990630_08.0421.C21.o1.ts	Method	TBLASTX:Soybean
Start	29	End	1554
GI	none	Score	127
Exons	29..136, 30..137, 125..229, 126..233, 333..404, 333..410, 334..411, 475..699, 488..688, 505..693, 891..983, 891..983, 895..984, 896..1000, 1071..1139, 1221..1286, 1223..1300, 1224..1292, 1225..1299, 1421..1492, 1432..1554, 1456..1554		

Seq. No.	50556	Seq. ID	OJ990630_08.0421.C21
Gene No.	107297	Strand	+
Start	1	End	1617
Name	OJ990630_08.0421.C21.o1.tc	Method	TBLASTX:Cress
Start	30	End	1555
GI	none	Score	108
Exons	30..125, 32..124, 119..229, 120..233, 333..404, 333..407, 488..697, 488..688, 496..690, 891..983, 891..983, 896..985, 1071..1139, 1071..1139, 1221..1286, 1223..1300, 1225..1299, 1421..1492, 1430..1555, 1437..1553, 1438..1554		

Seq. No.	50556	Seq. ID	OJ990630_08.0421.C21
Gene No.	107297	Strand	+
Start	1	End	1617
Name	OJ990630_08.0421.C21.o1.gs	Method	GENSCAN
Start	108	End	1552
GI	none	Score	.68
Exons	108..233, 336..403, 487..688, 885..982, 1070..1139, 1439..1552		

Seq. No.	50557	Seq. ID	OJ990630_08.0421.C22
Gene No.	107298	Strand	+
Start	1801	End	2113
Name	OJ990630_08.0421.C22.o1.gp	Method	AAT/GAP
Start	1801	End	2113
GI	286782	Score	626
Exons	1801..2113		

Seq. No.	50558	Seq. ID	OJ990630_08.0421.C23
Gene No.	107299	Strand	-
Start	794	End	1071
Name	OJ990630_08.0421.C23.o1.gs	Method	GENSCAN
Start	794	End	1071
GI	none	Score	.86

Exons 794..906, 1014..1071

Seq. No.	50559	Seq. ID	OJ990630_08.0421.C30
Gene No.	107300	Strand	+
Start	1	End	3936
Name	OJ990630_08.0421.C30.o1.np	Method	AAT/NAP
Start	1	End	2238
GI	5852093	Score	81
Exons	1..120, 390..498, 2214..2238		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	50559	Seq. ID	OJ990630_08.0421.C30
Gene No.	107300	Strand	+
Start	1	End	3936
Name	OJ990630_08.0421.C30.o2.np	Method	AAT/NAP
Start	1449	End	3906
GI	6721508	Score	73
Exons	1449..1504, 2765..2917, 2960..3024, 3708..3906		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	50559	Seq. ID	OJ990630_08.0421.C30
Gene No.	107300	Strand	+
Start	1	End	3936
Name	OJ990630_08.0421.C30.o1.gs	Method	GENSCAN
Start	1502	End	2087
GI	none	Score	.87
Exons	1502..1679, 1975..2087		

Seq. No.	50559	Seq. ID	OJ990630_08.0421.C30
Gene No.	107300	Strand	+
Start	1	End	3936
Name	OJ990630_08.0421.C30.o2.gs	Method	GENSCAN
Start	2893	End	3936
GI	none	Score	.81
Exons	2893..3017, 3792..3936		

Seq. No.	50560	Seq. ID	OJ990630_08.0421.C31
Gene No.	107301	Strand	+
Start	504	End	1317
Name	OJ990630_08.0421.C31.o1.gs	Method	GENSCAN
Start	504	End	1317
GI	none	Score	.64
Exons	504..556, 979..1081, 1306..1317		

Seq. No.	50560	Seq. ID	OJ990630_08.0421.C31
Gene No.	107302	Strand	+
Start	1790	End	2303
Name	OJ990630_08.0421.C31.o2.gs	Method	GENSCAN
Start	1790	End	2303
GI	none	Score	.97
Exons	1790..2303		

Seq. No.	50560	Seq. ID	OJ990630_08.0421.C31
Gene No.	107303	Strand	-
Start	842	End	2279
Name	OJ990630_08.0421.C31.o1.np	Method	AAT/NAP
Start	842	End	2279

GI 4056497 Score 49
 Exons 842..1149, 1799..1875, 2223..2279
 GI Descrip. (AC005896) putative histone H2B [Arabidopsis thaliana]

Seq. No.	50561	Seq. ID	OJ990630_08.0421.C32
Gene No.	107304	Strand	+
Start	119	End	460
Name	OJ990630_08.0421.C32.o1.gs	Method	GENSCAN
Start	119	End	460
GI	none	Score	.95
Exons	119..460		

Seq. No.	50561	Seq. ID	OJ990630_08.0421.C32
Gene No.	107305	Strand	+
Start	2068	End	2185
Name	OJ990630_08.0421.C32.o1.gp	Method	AAT/GAP
Start	2068	End	2185
GI	2311008	Score	142
Exons	2068..2185		

Seq. No.	50561	Seq. ID	OJ990630_08.0421.C32
Gene No.	107306	Strand	-
Start	817	End	3136
Name	OJ990630_08.0421.C32.o2.gs	Method	GENSCAN
Start	817	End	3136
GI	none	Score	.53
Exons	817..924, 2738..3136		

Seq. No.	50562	Seq. ID	OJ990630_08.0421.C35
Gene No.	107307	Strand	+
Start	510	End	1008
Name	OJ990630_08.0421.C35.o1.gs	Method	GENSCAN
Start	510	End	1008
GI	none	Score	.83
Exons	510..554, 603..758, 838..1008		

Seq. No.	50563	Seq. ID	OJ990430_03.0419.C2
Gene No.	107308	Strand	-
Start	2490	End	4904
Name	OJ990430_03.0419.C2.o1.gs	Method	GENSCAN
Start	2490	End	4904
GI	none	Score	.83
Exons	2490..2627, 2720..2788, 2970..3035, 3263..3352, 3445..3541, 4582..4904		

Seq. No.	50563	Seq. ID	OJ990430_03.0419.C2
Gene No.	107308	Strand	-
Start	2490	End	4904
Name	OJ990430_03.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	2490	End	2795
GI	none	Score	178
Exons	2490..2630, 2491..2637, 2494..2631, 2717..2794, 2721..2795, 2722..2790		

Seq. No.	50563	Seq. ID	OJ990430_03.0419.C2
Gene No.	107308	Strand	-
Start	2490	End	4904

Name	OJ990430_03.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	3475	End	4683
GI	none	Score	89
Exons	3475..3549, 3476..3532, 4581..4682, 4582..4683		
Seq. No.	50564	Seq. ID	OJ990430_03.0419.C3
Gene No.	107309	Strand	+
Start	104	End	3180
Name	OJ990430_03.0419.C3.o1.gs	Method	GENSCAN
Start	104	End	3180
GI	none	Score	.72
Exons	104..213, 3069..3180		
Seq. No.	50564	Seq. ID	OJ990430_03.0419.C3
Gene No.	107310	Strand	-
Start	89	End	195
Name	OJ990430_03.0419.C3.o1.gp	Method	AAT/GAP
Start	89	End	195
GI	426485	Score	161
Exons	89..195		
Seq. No.	50565	Seq. ID	OJ990430_03.0419.C4
Gene No.	107311	Strand	+
Start	157	End	293
Name	OJ990430_03.0419.C4.o1.gs	Method	GENSCAN
Start	157	End	293
GI	none	Score	.71
Exons	157..293		
Seq. No.	50566	Seq. ID	OJ990430_03.0419.C5
Gene No.	107312	Strand	-
Start	231	End	1425
Name	OJ990430_03.0419.C5.o1.gs	Method	GENSCAN
Start	231	End	1425
GI	none	Score	.88
Exons	231..443, 494..610, 707..886, 1033..1425		
Seq. No.	50567	Seq. ID	OJ990430_03.0419.C7
Gene No.	107313	Strand	-
Start	392	End	471
Name	OJ990430_03.0419.C7.o1.gs	Method	GENSCAN
Start	392	End	471
GI	none	Score	.62
Exons	392..471		
Seq. No.	50568	Seq. ID	OJ990430_03.0419.C8
Gene No.	107314	Strand	-
Start	1357	End	1566
Name	OJ990430_03.0419.C8.o1.gs	Method	GENSCAN
Start	1357	End	1566
GI	none	Score	.42
Exons	1357..1484, 1515..1566		
Seq. No.	50569	Seq. ID	OJ990430_03.0419.C10
Gene No.	107315	Strand	-
Start	100	End	969
Name	OJ990430_03.0419.C10.o1.gs	Method	GENSCAN

Start 100
GI none
Exons 100..313, 391..969

End 969
Score .9

Seq. No. 50570
Gene No. 107316
Start 226
Name OJ990430_03.0419.C12.o1.gs
Start 226
GI none
Exons 226..495, 1125..1205, 2113..2250

Seq. ID OJ990430_03.0419.C12
Strand +
End 2250
Method GENSCAN
End 2250
Score .76

Seq. No. 50571
Gene No. 107317
Start 94
Name OJ990430_03.0419.C13.o1.gs
Start 94
GI none
Exons 94..311, 389..765, 1038..2245

Seq. ID OJ990430_03.0419.C13
Strand +
End 2245
Method GENSCAN
End 2245
Score .69

Seq. No. 50572
Gene No. 107318
Start 157
Name OJ990430_03.0419.C14.o1.gs
Start 157
GI none
Exons 157..317

Seq. ID OJ990430_03.0419.C14
Strand +
End 317
Method GENSCAN
End 317
Score .98

Seq. No. 50572
Gene No. 107319
Start 859
Name OJ990430_03.0419.C14.o2.gs
Start 859
GI none
Exons 859..1066, 1341..1363, 1634..1777

Seq. ID OJ990430_03.0419.C14
Strand -
End 1777
Method GENSCAN
End 1777
Score .61

Seq. No. 50573
Gene No. 107320
Start 252
Name OJ990430_03.0419.C15.o1.gs
Start 252
GI none
Exons 252..317, 666..673

Seq. ID OJ990430_03.0419.C15
Strand +
End 673
Method GENSCAN
End 673
Score .92

Seq. No. 50573
Gene No. 107321
Start 1318
Name OJ990430_03.0419.C15.o1.np
Start 1318
GI 4680183
Exons 1318..1407, 2016..2129
GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. ID OJ990430_03.0419.C15
Strand -
End 2129
Method AAT/NAP
End 2129
Score 151

Seq. No. 50574
Gene No. 107322
Start 107
Name OJ990430_03.0419.C16.o1.gs

Seq. ID OJ990430_03.0419.C16
Strand -
End 806
Method GENSCAN

Start	107	End	806
GI	none	Score	.87
Exons	107..221, 300..806		

Seq. No.	50575	Seq. ID	OJ990430_03.0419.C19
Gene No.	107323	Strand	-
Start	1	End	1959
Name	OJ990430_03.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1959
GI	6630696	Score	1240
Exons	1..940, 1882..1959		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	50575	Seq. ID	OJ990430_03.0419.C19
Gene No.	107323	Strand	-
Start	1	End	1959
Name	OJ990430_03.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	60	End	413
GI	5509260	Score	87
Exons	60..413, 181..312		
GI Descrip.	-		

Seq. No.	50575	Seq. ID	OJ990430_03.0419.C19
Gene No.	107323	Strand	-
Start	1	End	1959
Name	OJ990430_03.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	63	End	314
GI	none	Score	96
Exons	63..314, 142..312		

Seq. No.	50575	Seq. ID	OJ990430_03.0419.C19
Gene No.	107323	Strand	-
Start	1	End	1959
Name	OJ990430_03.0419.C19.o2.tw	Method	TBLASTX:Wheat
Start	63	End	296
GI	none	Score	92
Exons	63..257, 63..296, 88..273		

Seq. No.	50575	Seq. ID	OJ990430_03.0419.C19
Gene No.	107323	Strand	-
Start	1	End	1959
Name	OJ990430_03.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	93	End	401
GI	none	Score	43
Exons	93..125, 93..401, 94..354, 174..359		

Seq. No.	50575	Seq. ID	OJ990430_03.0419.C19
Gene No.	107323	Strand	-
Start	1	End	1959
Name	OJ990430_03.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	327	End	937
GI	none	Score	76
Exons	327..410, 331..402, 406..813, 410..868, 413..937, 585..932		

Seq. No.	50575	Seq. ID	OJ990430_03.0419.C19
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Gene No.	107323	Strand	-
Start	1	End	1959
Name	OJ990430_03.0419.C19.o1.gs	Method	GENSCAN
Start	410	End	1653
GI	none	Score	.81
Exons	410..740, 1207..1322, 1355..1653		

Seq. No.	50576	Seq. ID	OJ990430_03.0419.C20
Gene No.	107324	Strand	+
Start	430	End	1555
Name	OJ990430_03.0419.C20.o1.gs	Method	GENSCAN
Start	430	End	1555
GI	none	Score	.59
Exons	430..1467, 1511..1555		

Seq. No.	50577	Seq. ID	OJ990430_03.0419.C21
Gene No.	107325	Strand	-
Start	641	End	760
Name	OJ990430_03.0419.C21.o1.gs	Method	GENSCAN
Start	641	End	760
GI	none	Score	.42
Exons	641..760		

Seq. No.	50578	Seq. ID	OJ990430_03.0419.C22
Gene No.	107326	Strand	+
Start	1	End	714
Name	OJ990430_03.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	714
GI	6630696	Score	807
Exons	1..714		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	50578	Seq. ID	OJ990430_03.0419.C22
Gene No.	107327	Strand	+
Start	1468	End	2109
Name	OJ990430_03.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	100	End	549
GI	none	Score	107
Exons	100..174, 101..169, 105..188, 105..173, 240..371, 241..372, 241..372, 351..458, 370..459, 370..456, 372..458, 468..545, 469..549, 478..549		

Seq. No.	50578	Seq. ID	OJ990430_03.0419.C22
Gene No.	107327	Strand	+
Start	1468	End	2109
Name	OJ990430_03.0419.C22.o2.tw	Method	TBLASTX:Wheat
Start	854	End	1188
GI	none	Score	62
Exons	854..925, 855..926, 877..933, 927..998, 935..997, 998..1075, 1000..1068, 1001..1072, 1014..1076, 1102..1176, 1102..1188		

Seq. No.	50578	Seq. ID	OJ990430_03.0419.C22
Gene No.	107327	Strand	+
Start	1468	End	2109
Name	OJ990430_03.0419.C22.o1.gs	Method	GENSCAN

Start	1468	End	2109
GI	none	Score	.71
Exons	1468..1545, 1811..1861, 1921..2109		

Seq. No.	50579	Seq. ID	OJ990430_03.0419.C25
Gene No.	107328	Strand	+
Start	792	End	980
Name	OJ990430_03.0419.C25.o1.gs	Method	GENSCAN
Start	792	End	980
GI	none	Score	.62
Exons	792..980		

Seq. No.	50580	Seq. ID	OJ990430_03.0419.C26
Gene No.	107329	Strand	+
Start	160	End	350
Name	OJ990430_03.0419.C26.o1.gs	Method	GENSCAN
Start	160	End	350
GI	none	Score	.41
Exons	160..273, 324..350		

Seq. No.	50581	Seq. ID	OJ990430_03.0419.C28
Gene No.	107330	Strand	-
Start	1	End	429
Name	OJ990430_03.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	429
GI	7514739	Score	100
Exons	1..64, 343..429		
GI Descrip.	D5L protein - variola minor virus (strain Garcia-1966) gi 885781 gb AAA69395.1 (U18339) D4L [Variola virus] gi 1150673 emb CAA50966.1 (X72086) ORF15L; B16L in citation [3] [Variola virus] gi 5830747 emb CAB54786.1 (Y16780) D5L protein [variola minor virus]		

Seq. No.	50581	Seq. ID	OJ990430_03.0419.C28
Gene No.	107331	Strand	-
Start	559	End	1748
Name	OJ990430_03.0419.C28.o1.gs	Method	GENSCAN
Start	559	End	1748
GI	none	Score	.96
Exons	559..711, 987..1059, 1143..1253, 1348..1521, 1626..1748		

Seq. No.	50582	Seq. ID	OJ990430_03.0419.C29
Gene No.	107332	Strand	-
Start	306	End	485
Name	OJ990430_03.0419.C29.o1.gs	Method	GENSCAN
Start	306	End	485
GI	none	Score	.9
Exons	306..485		

Seq. No.	50583	Seq. ID	OJ990430_03.0419.C30
Gene No.	107333	Strand	+
Start	243	End	354
Name	OJ990430_03.0419.C30.o1.gs	Method	GENSCAN
Start	243	End	354
GI	none	Score	.93
Exons	243..354		

Seq. No. 50584
 Gene No. 107334
 Start 482
 Name OJ990430_03.0419.C32.o1.gs
 Start 482
 GI none
 Exons 482..571, 726..752

Seq. ID OJ990430_03.0419.C32
 Strand +
 End 752
 Method GENSCAN
 End 752
 Score .6

Seq. No. 50585
 Gene No. 107335
 Start 423
 Name OJ990430_03.0419.C35.o1.gs
 Start 423
 GI none
 Exons 423..1040

Seq. ID OJ990430_03.0419.C35
 Strand -
 End 1040
 Method GENSCAN
 End 1040
 Score .8

Seq. No. 50585
 Gene No. 107335
 Start 423
 Name OJ990430_03.0419.C35.o1.tm
 Start 432
 GI none
 Exons 432..674, 433..675

Seq. ID OJ990430_03.0419.C35
 Strand -
 End 1040
 Method TBLASTX:Maize
 End 675
 Score 265

Seq. No. 50585
 Gene No. 107335
 Start 423
 Name OJ990430_03.0419.C35.o1.ts
 Start 516
 GI none
 Exons 516..824, 568..972, 570..974

Seq. ID OJ990430_03.0419.C35
 Strand -
 End 1040
 Method TBLASTX:Soybean
 End 974
 Score 214

Seq. No. 50586
 Gene No. 107336
 Start 143
 Name OJ990430_03.0419.C36.o1.gs
 Start 143
 GI none
 Exons 143..2083

Seq. ID OJ990430_03.0419.C36
 Strand -
 End 2083
 Method GENSCAN
 End 2083
 Score .78

Seq. No. 50586
 Gene No. 107336
 Start 143
 Name OJ990430_03.0419.C36.o1.ts
 Start 476
 GI none
 Exons 476..604, 1352..1687, 1354..1581, 1359..1673

Seq. ID OJ990430_03.0419.C36
 Strand -
 End 2083
 Method TBLASTX:Soybean
 End 1687
 Score 75

Seq. No. 50587
 Gene No. 107337
 Start 81
 Name OJ990430_03.0419.C37.o1.gs
 Start 81
 GI none
 Exons 81..417

Seq. ID OJ990430_03.0419.C37
 Strand -
 End 417
 Method GENSCAN
 End 417
 Score .87

Seq. No. 50588

Seq. ID OJ990430_03.0419.C39

Gene No.	107338	Strand	+
Start	123	End	1091
Name	OJ990430_03.0419.C39.ol.np	Method	AAT/NAP
Start	123	End	1091
GI	4680203	Score	491
Exons	123..1091		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	50588	Seq. ID	OJ990430_03.0419.C39
Gene No.	107338	Strand	+
Start	123	End	1091
Name	OJ990430_03.0419.C39.ol.gs	Method	GENSCAN
Start	127	End	989
GI	none	Score	.83
Exons	127..989		

Seq. No.	50588	Seq. ID	OJ990430_03.0419.C39
Gene No.	107338	Strand	+
Start	123	End	1091
Name	OJ990430_03.0419.C39.ol.tw	Method	TBLASTX:Wheat
Start	469	End	996
GI	none	Score	246
Exons	469..894, 558..866, 892..996, 915..992		

Seq. No.	50588	Seq. ID	OJ990430_03.0419.C39
Gene No.	107338	Strand	+
Start	123	End	1091
Name	OJ990430_03.0419.C39.ol.ts	Method	TBLASTX:Soybean
Start	594	End	876
GI	none	Score	319
Exons	594..863, 595..876		

Seq. No.	50589	Seq. ID	OJ990430_03.0419.C43
Gene No.	107339	Strand	-
Start	147	End	1506
Name	OJ990430_03.0419.C43.ol.gs	Method	GENSCAN
Start	147	End	1506
GI	none	Score	.46
Exons	147..320, 425..698, 765..1072, 1128..1251, 1377..1506		

Seq. No.	50590	Seq. ID	OJ990430_03.0419.C44
Gene No.	107340	Strand	-
Start	1	End	1627
Name	OJ990430_03.0419.C44.ol.np	Method	AAT/NAP
Start	1	End	1627
GI	4680204	Score	642
Exons	1..1627		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	50590	Seq. ID	OJ990430_03.0419.C44
Gene No.	107340	Strand	-
Start	1	End	1627
Name	OJ990430_03.0419.C44.ol.tw	Method	TBLASTX:Wheat
Start	540	End	879
GI	none	Score	36
Exons	540..572, 546..566, 576..716, 577..657, 711..878, 730..879		

Seq. No.	50591	Seq. ID	OJ990430_03.0419.C45
Gene No.	107341	Strand	+
Start	989	End	1433
Name	OJ990430_03.0419.C45.o1.gp	Method	AAT/GAP
Start	989	End	1433
GI	LIB3431-028-P1-N1-A10	Score	746
Exons	989..1056, 1084..1433		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	50591	Seq. ID	OJ990430_03.0419.C45
Gene No.	107342	Strand	-
Start	1052	End	2216
Name	OJ990430_03.0419.C45.o1.gs	Method	GENSCAN
Start	1052	End	2110
GI	none	Score	.83
Exons	1052..1705, 1964..2110		

Seq. No.	50591	Seq. ID	OJ990430_03.0419.C45
Gene No.	107342	Strand	-
Start	1052	End	2216
Name	OJ990430_03.0419.C45.o1.np	Method	AAT/NAP
Start	1073	End	2052
GI	4680203	Score	950
Exons	1073..2052		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	50591	Seq. ID	OJ990430_03.0419.C45
Gene No.	107342	Strand	-
Start	1052	End	2216
Name	OJ990430_03.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	1127	End	2216
GI	none	Score	53
Exons	1127..1219, 1128..1193, 1208..1288, 1236..1289, 1293..1412, 1301..1441, 1302..1442, 1389..1484, 1421..1480, 1487..1528, 1487..1531, 1492..1533, 1526..2215, 1541..1852, 1815..2216, 2007..2216		

Seq. No.	50591	Seq. ID	OJ990430_03.0419.C45
Gene No.	107342	Strand	-
Start	1052	End	2216
Name	OJ990430_03.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	1709	End	2156
GI	none	Score	85
Exons	1709..1852, 1709..2152, 1815..2156, 2013..2156		

Seq. No.	50592	Seq. ID	OJ990430_03.0419.C46
Gene No.	107343	Strand	+
Start	3191	End	5718
Name	OJ990430_03.0419.C46.o2.gs	Method	GENSCAN
Start	3191	End	5718
GI	none	Score	.81
Exons	3191..3301, 5488..5718		

Seq. No.	50592	Seq. ID	OJ990430_03.0419.C46
Gene No.	107344	Strand	-
Start	1	End	2724

Name	OJ990430_03.0419.C46.o1.gp	Method	AAT/GAP
Start	1	End	1441
GI	342_1.R1084	Score	2280
Exons	1..1441		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	50592	Seq. ID	OJ990430_03.0419.C46
Gene No.	107344	Strand	-
Start	1	End	2724
Name	OJ990430_03.0419.C46.o1.np	Method	AAT/NAP
Start	1	End	2724
GI	4680203	Score	1660
Exons	1..1445, 2650..2724		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	50592	Seq. ID	OJ990430_03.0419.C46
Gene No.	107344	Strand	-
Start	1	End	2724
Name	OJ990430_03.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	24	End	479
GI	none	Score	85
Exons	24..215, 225..479, 225..467		

Seq. No.	50592	Seq. ID	OJ990430_03.0419.C46
Gene No.	107344	Strand	-
Start	1	End	2724
Name	OJ990430_03.0419.C46.o1.tw	Method	TBLASTX:Wheat
Start	55	End	513
GI	none	Score	145
Exons	55..261, 55..264, 60..284, 262..354, 264..359, 264..362, 366..470, 370..471, 468..512, 472..513		

Seq. No.	50592	Seq. ID	OJ990430_03.0419.C46
Gene No.	107344	Strand	-
Start	1	End	2724
Name	OJ990430_03.0419.C46.o1.tc	Method	TBLASTX:Cress
Start	312	End	660
GI	none	Score	78
Exons	312..653, 331..459, 508..660		

Seq. No.	50592	Seq. ID	OJ990430_03.0419.C46
Gene No.	107344	Strand	-
Start	1	End	2724
Name	OJ990430_03.0419.C46.o1.ts	Method	TBLASTX:Soybean
Start	393	End	822
GI	none	Score	91
Exons	393..662, 411..557, 412..657, 747..821, 757..822		

Seq. No.	50592	Seq. ID	OJ990430_03.0419.C46
Gene No.	107344	Strand	-
Start	1	End	2724
Name	OJ990430_03.0419.C46.o2.tw	Method	TBLASTX:Wheat
Start	738	End	1139
GI	none	Score	174
Exons	738..995, 739..996, 743..985, 746..1003, 751..993, 753..1004, 987..1139, 1001..1120		

Seq. No.	50593	Seq. ID	OJ990430_03.0419.C47
Gene No.	107345	Strand	+
Start	234	End	500
Name	OJ990430_03.0419.C47.o1.gs	Method	GENSCAN
Start	234	End	406
GI	none	Score	.41
Exons	234..406		
Seq. No.	50593	Seq. ID	OJ990430_03.0419.C47
Gene No.	107345	Strand	+
Start	234	End	500
Name	OJ990430_03.0419.C47.o1.gp	Method	AAT/GAP
Start	248	End	500
GI	28898 2.R1084	Score	314
Exons	248..379, 401..500		
GI Descrip.	'5042437/gb AC007789.1 AC007789 1.0e-69 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		
Seq. No.	50593	Seq. ID	OJ990430_03.0419.C47
Gene No.	107346	Strand	+
Start	1410	End	5437
Name	OJ990430_03.0419.C47.o3.np	Method	AAT/NAP
Start	1410	End	5437
GI	7228457	Score	88
Exons	1410..1435, 5288..5437		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	50593	Seq. ID	OJ990430_03.0419.C47
Gene No.	107347	Strand	-
Start	628	End	5148
Name	OJ990430_03.0419.C47.o2.gs	Method	GENSCAN
Start	628	End	5148
GI	none	Score	.79
Exons	628..746, 1509..1605, 3868..3942, 3989..4129, 5116..5148		
Seq. No.	50593	Seq. ID	OJ990430_03.0419.C47
Gene No.	107347	Strand	-
Start	628	End	5148
Name	OJ990430_03.0419.C47.o1.tw	Method	TBLASTX:Wheat
Start	2422	End	2829
GI	none	Score	105
Exons	2422..2829, 2444..2815		
Seq. No.	50594	Seq. ID	OJ990430_03.0419.C48
Gene No.	107348	Strand	+
Start	1	End	2370
Name	OJ990430_03.0419.C48.o1.np	Method	AAT/NAP
Start	1	End	2370
GI	5902445	Score	1551
Exons	1..135, 476..1692, 1731..2370		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		
Seq. No.	50594	Seq. ID	OJ990430_03.0419.C48
Gene No.	107348	Strand	+

Start 1
 Name OJ990430_03.0419.C48.o1.tw
 Start 475
 GI none
 Exons 475..864, 502..723, 504..866

End 2370
 Method TBLASTX:Wheat
 End 866
 Score 396

Seq. No. 50594
 Gene No. 107348
 Start 1
 Name OJ990430_03.0419.C48.o1.ts
 Start 520
 GI none
 Exons 520..921, 522..695

Seq. ID OJ990430_03.0419.C48
 Strand +
 End 2370
 Method TBLASTX:Soybean
 End 921
 Score 291

Seq. No. 50594
 Gene No. 107348
 Start 1
 Name OJ990430_03.0419.C48.o2.tm
 Start 589
 GI none
 Exons 589..843, 627..821, 862..936,

Seq. ID OJ990430_03.0419.C48
 Strand +
 End 2370
 Method TBLASTX:Maize
 End 1016
 Score 232
 864..950, 987..1016, 988..1014

Seq. No. 50594
 Gene No. 107348
 Start 1
 Name OJ990430_03.0419.C48.o1.gs
 Start 609
 GI none
 Exons 609..716, 769..1580, 1702..2112, 2211..2283

Seq. ID OJ990430_03.0419.C48
 Strand +
 End 2370
 Method GENSCAN
 End 2283
 Score .7

Seq. No. 50594
 Gene No. 107348
 Start 1
 Name OJ990430_03.0419.C48.o2.tw
 Start 1012
 GI none
 Exons 1012..1236, 1032..1238, 1246..1419

Seq. ID OJ990430_03.0419.C48
 Strand +
 End 2370
 Method TBLASTX:Wheat
 End 1419
 Score 218

Seq. No. 50594
 Gene No. 107348
 Start 1
 Name OJ990430_03.0419.C48.o1.tm
 Start 1919
 GI none
 Exons 1919..2221, 2005..2094, 2128..2220

Seq. ID OJ990430_03.0419.C48
 Strand +
 End 2370
 Method TBLASTX:Maize
 End 2221
 Score 330

Seq. No. 50594
 Gene No. 107348
 Start 1
 Name OJ990430_03.0419.C48.o3.tw
 Start 1919
 GI none
 Exons 1919..2284, 2152..2286

Seq. ID OJ990430_03.0419.C48
 Strand +
 End 2370
 Method TBLASTX:Wheat
 End 2286
 Score 317

Seq. No. 50595
 Gene No. 107349
 Start 1

Seq. ID OJ990430_03.0419.C49
 Strand +
 End 1139

Name	OJ990430_03.0419.C49.o1.np	Method	AAT/NAP
Start	1	End	1139
GI	2443320	Score	1557
Exons	1..1139		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	50595	Seq. ID	OJ990430_03.0419.C49
Gene No.	107349	Strand	+
Start	1	End	1139
Name	OJ990430_03.0419.C49.o2.tw	Method	TBLASTX:Wheat
Start	58	End	249
GI	none	Score	228
Exons	58..249, 67..249		

Seq. No.	50595	Seq. ID	OJ990430_03.0419.C49
Gene No.	107349	Strand	+
Start	1	End	1139
Name	OJ990430_03.0419.C49.o1.ts	Method	TBLASTX:Soybean
Start	124	End	573
GI	5509260	Score	356
Exons	124..564, 124..486, 414..572, 517..573		
GI Descrip.	-		

Seq. No.	50595	Seq. ID	OJ990430_03.0419.C49
Gene No.	107349	Strand	+
Start	1	End	1139
Name	OJ990430_03.0419.C49.o1.tc	Method	TBLASTX:Cress
Start	208	End	477
GI	none	Score	230
Exons	208..345, 213..350, 214..477		

Seq. No.	50595	Seq. ID	OJ990430_03.0419.C49
Gene No.	107349	Strand	+
Start	1	End	1139
Name	OJ990430_03.0419.C49.o1.tw	Method	TBLASTX:Wheat
Start	252	End	1053
GI	none	Score	491
Exons	252..599, 253..603, 256..603, 573..1052, 589..1053		

Seq. No.	50595	Seq. ID	OJ990430_03.0419.C49
Gene No.	107349	Strand	+
Start	1	End	1139
Name	OJ990430_03.0419.C49.o1.tm	Method	TBLASTX:Maize
Start	258	End	690
GI	none	Score	326
Exons	258..362, 275..442, 277..690, 412..576, 414..623		

Seq. No.	50596	Seq. ID	OJ990430_03.0419.C53
Gene No.	107350	Strand	+
Start	165	End	1390
Name	OJ990430_03.0419.C53.o1.gs	Method	GENSCAN
Start	165	End	1390
GI	none	Score	.81
Exons	165..281, 332..540, 959..1107, 1149..1390		

Seq. No.	50597	Seq. ID	OJ990430_03.0419.C55
Gene No.	107351	Strand	+

Start	62	End	152
Name	OJ990430_03.0419.C55.o1.np	Method	AAT/NAP
Start	62	End	152
GI	6721561	Score	80
Exons	62..152		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50597	Seq. ID	OJ990430_03.0419.C55
Gene No.	107352	Strand	+
Start	650	End	999
Name	OJ990430_03.0419.C55.o2.np	Method	AAT/NAP
Start	650	End	999
GI	7340881	Score	122
Exons	650..783, 889..999		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	50597	Seq. ID	OJ990430_03.0419.C55
Gene No.	107353	Strand	-
Start	571	End	726
Name	OJ990430_03.0419.C55.o1.gs	Method	GENSCAN
Start	571	End	726
GI	none	Score	.47
Exons	571..726		

Seq. No.	50598	Seq. ID	OJ990430_03.0419.C57
Gene No.	107354	Strand	-
Start	90	End	671
Name	OJ990430_03.0419.C57.o1.gs	Method	GENSCAN
Start	90	End	671
GI	none	Score	.65
Exons	90..246, 385..671		

Seq. No.	50599	Seq. ID	OJ990430_03.0419.C58
Gene No.	107355	Strand	-
Start	801	End	922
Name	OJ990430_03.0419.C58.o1.gs	Method	GENSCAN
Start	801	End	922
GI	none	Score	.93
Exons	801..922		

Seq. No.	50600	Seq. ID	OJ990430_03.0419.C60
Gene No.	107356	Strand	+
Start	1	End	1567
Name	OJ990430_03.0419.C60.o1.np	Method	AAT/NAP
Start	1	End	676
GI	4680203	Score	282
Exons	1..676		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	50600	Seq. ID	OJ990430_03.0419.C60
Gene No.	107356	Strand	+
Start	1	End	1567
Name	OJ990430_03.0419.C60.o1.tw	Method	TBLASTX:Wheat

Start	99	End	598
GI	none	Score	70
Exons	99..170, 113..172, 169..234, 173..235, 302..355, 373..477, 374..478, 479..598		

Seq. No.	50600	Seq. ID	OJ990430_03.0419.C60
Gene No.	107356	Strand	+
Start	1	End	1567
Name	OJ990430_03.0419.C60.o1.gs	Method	GENSCAN
Start	146	End	1567
GI	none	Score	.69
Exons	146..400, 440..565, 1304..1567		

Seq. No.	50600	Seq. ID	OJ990430_03.0419.C60
Gene No.	107356	Strand	+
Start	1	End	1567
Name	OJ990430_03.0419.C60.o1.ts	Method	TBLASTX:Soybean
Start	289	End	535
GI	none	Score	226
Exons	289..471, 290..535		

Seq. No.	50601	Seq. ID	OJ990430_03.0419.C61
Gene No.	107357	Strand	+
Start	215	End	943
Name	OJ990430_03.0419.C61.o1.gs	Method	GENSCAN
Start	215	End	943
GI	none	Score	.82
Exons	215..943		

Seq. No.	50602	Seq. ID	OJ990430_03.0419.C62
Gene No.	107358	Strand	+
Start	208	End	938
Name	OJ990430_03.0419.C62.o1.gs	Method	GENSCAN
Start	208	End	938
GI	none	Score	.88
Exons	208..271, 295..412, 491..661, 746..938		

Seq. No.	50603	Seq. ID	OJ990430_03.0419.C63
Gene No.	107359	Strand	+
Start	71	End	1386
Name	OJ990430_03.0419.C63.o1.np	Method	AAT/NAP
Start	71	End	1386
GI	6742729	Score	1831
Exons	71..1386		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	50603	Seq. ID	OJ990430_03.0419.C63
Gene No.	107359	Strand	+
Start	71	End	1386
Name	OJ990430_03.0419.C63.o1.gp	Method	AAT/GAP
Start	88	End	1294
GI	342_1.R1084	Score	2083
Exons	88..1294		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	50603	Seq. ID	OJ990430_03.0419.C63
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Gene No.	107359	Strand	+
Start	71	End	1386
Name	OJ990430_03.0419.C63.o1.ts	Method	TBLASTX:Soybean
Start	88	End	310
GI	none	Score	189
Exons	88..291, 89..310, 146..292		

Seq. No.	50603	Seq. ID	OJ990430_03.0419.C63
Gene No.	107359	Strand	+
Start	71	End	1386
Name	OJ990430_03.0419.C63.o1.tc	Method	TBLASTX:Cress
Start	98	End	391
GI	none	Score	241
Exons	98..391, 244..372		

Seq. No.	50603	Seq. ID	OJ990430_03.0419.C63
Gene No.	107359	Strand	+
Start	71	End	1386
Name	OJ990430_03.0419.C63.o1.gs	Method	GENSCAN
Start	137	End	1144
GI	none	Score	.5
Exons	137..488, 701..1144		

Seq. No.	50603	Seq. ID	OJ990430_03.0419.C63
Gene No.	107359	Strand	+
Start	71	End	1386
Name	OJ990430_03.0419.C63.o1.tw	Method	TBLASTX:Wheat
Start	190	End	648
GI	none	Score	63
Exons	190..231, 191..235, 232..333, 233..337, 341..439, 344..439, 349..441, 419..643, 439..648, 442..648		

Seq. No.	50603	Seq. ID	OJ990430_03.0419.C63
Gene No.	107359	Strand	+
Start	71	End	1386
Name	OJ990430_03.0419.C63.o1.tm	Method	TBLASTX:Maize
Start	224	End	679
GI	none	Score	239
Exons	224..478, 236..478, 488..679		

Seq. No.	50603	Seq. ID	OJ990430_03.0419.C63
Gene No.	107359	Strand	+
Start	71	End	1386
Name	OJ990430_03.0419.C63.o2.tw	Method	TBLASTX:Wheat
Start	786	End	1235
GI	none	Score	83
Exons	786..836, 787..849, 835..1077, 855..1076, 1105..1233, 1106..1234, 1110..1235, 1111..1233		

Seq. No.	50604	Seq. ID	OJ990430_03.0419.C64
Gene No.	107360	Strand	-
Start	394	End	927
Name	OJ990430_03.0419.C64.o1.gs	Method	GENSCAN
Start	394	End	927
GI	none	Score	.64
Exons	394..927		

Seq. No.	50605	Seq. ID	OJ990430_03.0419.C66
Gene No.	107361	Strand	+
Start	201	End	256
Name	OJ990430_03.0419.C66.o1.gs	Method	GENSCAN
Start	201	End	256
GI	none	Score	.56
Exons	201..256		

Seq. No.	50606	Seq. ID	OJ990430_03.0419.C68
Gene No.	107362	Strand	+
Start	1	End	1204
Name	OJ990430_03.0419.C68.o1.np	Method	AAT/NAP
Start	1	End	1204
GI	2443320	Score	1682
Exons	1..1204		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	50606	Seq. ID	OJ990430_03.0419.C68
Gene No.	107362	Strand	+
Start	1	End	1204
Name	OJ990430_03.0419.C68.o1.tw	Method	TBLASTX:Wheat
Start	87	End	617
GI	none	Score	111
Exons	87..167, 92..163, 137..616, 153..617		

Seq. No.	50606	Seq. ID	OJ990430_03.0419.C68
Gene No.	107362	Strand	+
Start	1	End	1204
Name	OJ990430_03.0419.C68.o1.tm	Method	TBLASTX:Maize
Start	267	End	731
GI	none	Score	59
Exons	267..428, 405..710, 498..731		

Seq. No.	50606	Seq. ID	OJ990430_03.0419.C68
Gene No.	107362	Strand	+
Start	1	End	1204
Name	OJ990430_03.0419.C68.o1.ts	Method	TBLASTX:Soybean
Start	588	End	1069
GI	none	Score	162
Exons	588..863, 965..1069		

Seq. No.	50606	Seq. ID	OJ990430_03.0419.C68
Gene No.	107362	Strand	+
Start	1	End	1204
Name	OJ990430_03.0419.C68.o2.tw	Method	TBLASTX:Wheat
Start	690	End	1165
GI	none	Score	196
Exons	690..863, 691..810, 696..863, 842..904, 853..909, 904..1164, 907..1164, 908..1165, 908..1165		

Seq. No.	50606	Seq. ID	OJ990430_03.0419.C68
Gene No.	107362	Strand	+
Start	1	End	1204
Name	OJ990430_03.0419.C68.o2.tm	Method	TBLASTX:Maize
Start	774	End	1194
GI	none	Score	59
Exons	774..854, 847..909, 848..907, 959..1189, 973..1194		

Seq. No.	50607	Seq. ID	OJ990430_03.0419.C69
Gene No.	107363	Strand	+
Start	138	End	311
Name	OJ990430_03.0419.C69.o1.gp	Method	AAT/GAP
Start	138	End	311
GI	10431_1.R1084	Score	301
Exons	138..311		
GI Descrip.	'1256198/dbj D63711 RICTNR3 4.0e-82 Rice transposon Tnr3 DNA, complete sequence'		

Seq. No.	50607	Seq. ID	OJ990430_03.0419.C69
Gene No.	107364	Strand	-
Start	569	End	1666
Name	OJ990430_03.0419.C69.o1.gs	Method	GENSCAN
Start	569	End	1666
GI	none	Score	.68
Exons	569..672, 1077..1187, 1615..1666		

Seq. No.	50608	Seq. ID	OJ990430_03.0419.C70
Gene No.	107365	Strand	+
Start	1066	End	1483
Name	OJ990430_03.0419.C70.o2.gp	Method	AAT/GAP
Start	1066	End	1483
GI	LIB3479-006-Q6-K1-B11	Score	626
Exons	1066..1483		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 1.0e-110 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	50608	Seq. ID	OJ990430_03.0419.C70
Gene No.	107365	Strand	+
Start	1066	End	1483
Name	OJ990430_03.0419.C70.o1.gs	Method	GENSCAN
Start	1159	End	1260
GI	none	Score	.41
Exons	1159..1260		

Seq. No.	50608	Seq. ID	OJ990430_03.0419.C70
Gene No.	107366	Strand	-
Start	505	End	600
Name	OJ990430_03.0419.C70.o1.gp	Method	AAT/GAP
Start	505	End	600
GI	LIB3477-003-P1-K1-E9	Score	107
Exons	505..600		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I)>gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	50608	Seq. ID	OJ990430_03.0419.C70
Gene No.	107367	Strand	-
Start	853	End	2072
Name	OJ990430_03.0419.C70.o1.np	Method	AAT/NAP
Start	853	End	2021
GI	6539570	Score	219
Exons	853..919, 1079..1243, 1994..2021		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	50608	Seq. ID	OJ990430_03.0419.C70
Gene No.	107367	Strand	-
Start	853	End	2072
Name	OJ990430_03.0419.C70.o2.np	Method	AAT/NAP
Start	1400	End	2072
GI	6630699	Score	82
Exons	1400..1482, 2039..2072		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	50609	Seq. ID	OJ990430_03.0419.C71
Gene No.	107368	Strand	+
Start	226	End	3820
Name	OJ990430_03.0419.C71.o1.gs	Method	GENSCAN
Start	226	End	3820
GI	none	Score	.51
Exons	226..327, 3676..3820		

Seq. No.	50609	Seq. ID	OJ990430_03.0419.C71
Gene No.	107369	Strand	+
Start	6171	End	6341
Name	OJ990430_03.0419.C71.o2.np	Method	AAT/NAP
Start	6171	End	6341
GI	7445817	Score	44
Exons	6171..6341		
GI Descrip.	ABC-type transport protein slr0864 - Synechocystis sp. (strain PCC 6803) gi 1652892 dbj BAA17810.1 (D90909) ABC transporter [Synechocystis sp.]		

Seq. No.	50609	Seq. ID	OJ990430_03.0419.C71
Gene No.	107370	Strand	-
Start	967	End	3849
Name	OJ990430_03.0419.C71.o1.np	Method	AAT/NAP
Start	967	End	3849
GI	5042463	Score	182
Exons	967..1050, 2705..2787, 2839..2998, 3664..3849		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	50609	Seq. ID	OJ990430_03.0419.C71
Gene No.	107371	Strand	-
Start	6077	End	7995
Name	OJ990430_03.0419.C71.o3.np	Method	AAT/NAP
Start	6077	End	7995
GI	81286	Score	85
Exons	6077..6119, 7369..7995		
GI Descrip.	extensin - Volvox carteri (fragment) gi 21992 emb CAA46283 (X65165) extensin [Volvox carteri]		

Seq. No.	50610	Seq. ID	OJ990430_03.0419.C73
Gene No.	107372	Strand	-
Start	42	End	739
Name	OJ990430_03.0419.C73.o1.gs	Method	GENSCAN
Start	42	End	739
GI	none	Score	.96
Exons	42..158, 236..739		

Seq. No.	50611	Seq. ID	OJ990430_03.0419.C74
Gene No.	107373	Strand	+
Start	1	End	1440
Name	OJ990430_03.0419.C74.o1.np	Method	AAT/NAP
Start	1	End	1398
GI	6742729	Score	1868
Exons	1..1398		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	50611	Seq. ID	OJ990430_03.0419.C74
Gene No.	107373	Strand	+
Start	1	End	1440
Name	OJ990430_03.0419.C74.o1.gs	Method	GENSCAN
Start	101	End	1223
GI	none	Score	.51
Exons	101..749, 863..1223		

Seq. No.	50611	Seq. ID	OJ990430_03.0419.C74
Gene No.	107373	Strand	+
Start	1	End	1440
Name	OJ990430_03.0419.C74.o2.tw	Method	TBLASTX:Wheat
Start	166	End	576
GI	none	Score	83
Exons	166..216, 167..229, 215..457, 235..456, 485..574, 490..576, 491..574		

Seq. No.	50611	Seq. ID	OJ990430_03.0419.C74
Gene No.	107373	Strand	+
Start	1	End	1440
Name	OJ990430_03.0419.C74.o1.tw	Method	TBLASTX:Wheat
Start	577	End	1440
GI	none	Score	120
Exons	577..684, 578..685, 683..793, 687..791, 713..811, 792..1001, 792..1193, 793..1194, 1214..1336, 1234..1440, 1238..1432, 1357..1440		

Seq. No.	50611	Seq. ID	OJ990430_03.0419.C74
Gene No.	107373	Strand	+
Start	1	End	1440
Name	OJ990430_03.0419.C74.o1.tm	Method	TBLASTX:Maize
Start	620	End	921
GI	none	Score	70
Exons	620..682, 696..779, 707..778, 783..920, 796..921		

Seq. No.	50611	Seq. ID	OJ990430_03.0419.C74
Gene No.	107373	Strand	+
Start	1	End	1440
Name	OJ990430_03.0419.C74.o1.tc	Method	TBLASTX:Cress
Start	852	End	1300
GI	none	Score	102
Exons	852..995, 852..1193, 856..1194, 1214..1276, 1238..1300		

Seq. No.	50612	Seq. ID	OJ990430_03.0419.C76
Gene No.	107374	Strand	+
Start	209	End	807
Name	OJ990430_03.0419.C76.o1.np	Method	AAT/NAP
Start	209	End	807

GI	2129735	Score	247
Exons	209..807		
GI Descrip.	serine/threonine-specific kinase (EC 2.7.1.-) precursor - Arabidopsis thaliana gi 1405837 emb CAA62824 (X91630) receptor-like kinase [Arabidopsis thaliana] gi 2150023 (AF001168) receptor-like kinase LECRK1 [Arabidopsis thaliana]		

Seq. No.	50612	Seq. ID	OJ990430_03.0419.C76
Gene No.	107374	Strand	+
Start	209	End	807
Name	OJ990430_03.0419.C76.o1.tm	Method	TBLASTX:Maize
Start	263	End	760
GI	none	Score	73
Exons	263..391, 395..526, 548..760		

Seq. No.	50612	Seq. ID	OJ990430_03.0419.C76
Gene No.	107374	Strand	+
Start	209	End	807
Name	OJ990430_03.0419.C76.o1.tc	Method	TBLASTX:Cress
Start	287	End	727
GI	none	Score	82
Exons	287..397, 334..396, 373..606, 389..727		

Seq. No.	50612	Seq. ID	OJ990430_03.0419.C76
Gene No.	107374	Strand	+
Start	209	End	807
Name	OJ990430_03.0419.C76.o1.gp	Method	AAT/GAP
Start	326	End	733
GI	701653	Score	722
Exons	326..733		
GI Descrip.	2129735/pir S68589 1.0e-29 serine/threonine-specific kinase (EC 2.7.1.-) precursor - Arabidopsis thaliana >gi_1405837_emb_CAA62824_ (X91630) receptor-like kinase [Arabidopsis thaliana] >gi_2150023 (AF001168) receptor-like kinase LECRK1 [Arabidopsis thaliana]		

Seq. No.	50612	Seq. ID	OJ990430_03.0419.C76
Gene No.	107374	Strand	+
Start	209	End	807
Name	OJ990430_03.0419.C76.o1.ts	Method	TBLASTX:Soybean
Start	425	End	727
GI	none	Score	222
Exons	425..727, 427..687		

Seq. No.	50613	Seq. ID	OJ990430_03.0419.C77
Gene No.	107375	Strand	+
Start	1	End	998
Name	OJ990430_03.0419.C77.o1.np	Method	AAT/NAP
Start	1	End	998
GI	6742729	Score	1252
Exons	1..998		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	50613	Seq. ID	OJ990430_03.0419.C77
Gene No.	107375	Strand	+
Start	1	End	998
Name	OJ990430_03.0419.C77.o1.gp	Method	AAT/GAP

Start	87	End	910
GI	342_1.R1084	Score	1440
Exons	87..910		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	50613	Seq. ID	OJ990430_03.0419.C77
Gene No.	107375	Strand	+
Start	1	End	998
Name	OJ990430_03.0419.C77.o2.tw	Method	TBLASTX:Wheat
Start	87	End	391
GI	none	Score	220
Exons	87..272, 87..272, 88..273, 300..389, 305..391, 306..389		

Seq. No.	50613	Seq. ID	OJ990430_03.0419.C77
Gene No.	107375	Strand	+
Start	1	End	998
Name	OJ990430_03.0419.C77.o1.gs	Method	GENSCAN
Start	190	End	858
GI	none	Score	.73
Exons	190..339, 677..858		

Seq. No.	50613	Seq. ID	OJ990430_03.0419.C77
Gene No.	107375	Strand	+
Start	1	End	998
Name	OJ990430_03.0419.C77.o1.tw	Method	TBLASTX:Wheat
Start	392	End	908
GI	none	Score	233
Exons	392..607, 393..605, 606..815, 606..908, 607..879		

Seq. No.	50613	Seq. ID	OJ990430_03.0419.C77
Gene No.	107375	Strand	+
Start	1	End	998
Name	OJ990430_03.0419.C77.o1.tm	Method	TBLASTX:Maize
Start	435	End	735
GI	none	Score	141
Exons	435..593, 446..592, 597..707, 610..735		

Seq. No.	50613	Seq. ID	OJ990430_03.0419.C77
Gene No.	107375	Strand	+
Start	1	End	998
Name	OJ990430_03.0419.C77.o1.tc	Method	TBLASTX:Cress
Start	666	End	908
GI	none	Score	104
Exons	666..809, 666..908, 670..879		

Seq. No.	50614	Seq. ID	OJ990430_03.0419.C78
Gene No.	107376	Strand	-
Start	1165	End	1337
Name	OJ990430_03.0419.C78.o1.gp	Method	AAT/GAP
Start	1165	End	1337
GI	10431_1.R1084	Score	297
Exons	1165..1337		
GI Descrip.	'1256198/dbj D63711 RICTNR3 4.0e-82 Rice transposon Tnr3 DNA, complete sequence'		

Seq. No.	50615	Seq. ID	OJ990430_03.0419.C79
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Gene No. 107377
 Start 98
 Name OJ990430_03.0419.C79.o1.gs
 Start 98
 GI none
 Exons 98..157, 290..394

Strand +
 End 394
 Method GENSCAN
 End 394
 Score .57

Seq. No. 50616
 Gene No. 107378
 Start 151
 Name OJ990430_03.0419.C80.o1.gs
 Start 151
 GI none
 Exons 151..330, 606..678

Seq. ID OJ990430_03.0419.C80
 Strand -
 End 678
 Method GENSCAN
 End 678
 Score .83

Seq. No. 50617
 Gene No. 107379
 Start 608
 Name OJ990430_03.0419.C81.o1.gs
 Start 608
 GI none
 Exons 608..709

Seq. ID OJ990430_03.0419.C81
 Strand -
 End 709
 Method GENSCAN
 End 709
 Score .44

Seq. No. 50618
 Gene No. 107380
 Start 1543
 Name OJ990430_03.0419.C82.o1.gp
 Start 1543
 GI 28898_2.R1084
 Exons 1543..1670, 1692..1790

Seq. ID OJ990430_03.0419.C82
 Strand +
 End 1790
 Method AAT/GAP
 End 1790
 Score 325

GI Descrip. '5042437/gb|AC007789.1|AC007789 1.0e-69 Oryza sativa BAC T49B20 genomic sequence, complete sequence'

Seq. No. 50619
 Gene No. 107381
 Start 87
 Name OJ990430_03.0419.C84.o1.tm
 Start 87
 GI none
 Exons 87..164, 91..159, 250..387, 251..391

Seq. ID OJ990430_03.0419.C84
 Strand -
 End 391
 Method TBLASTX:Maize
 End 391
 Score 108

Seq. No. 50620
 Gene No. 107382
 Start 266
 Name OJ990430_03.0419.C85.o1.gs
 Start 266
 GI none
 Exons 266..369

Seq. ID OJ990430_03.0419.C85
 Strand -
 End 369
 Method GENSCAN
 End 369
 Score .42

Seq. No. 50621
 Gene No. 107383
 Start 39
 Name OJ990430_03.0419.C89.o1.gs
 Start 39
 GI none
 Exons 39..210

Seq. ID OJ990430_03.0419.C89
 Strand -
 End 210
 Method GENSCAN
 End 210
 Score .55

Seq. No.	50622	Seq. ID	OJ990430_03.0419.C90
Gene No.	107384	Strand	-
Start	388	End	806
Name	OJ990430_03.0419.C90.ol.np	Method	AAT/NAP
Start	388	End	806
GI	7340881	Score	135
Exons	388..451, 557..806		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	50623	Seq. ID	OJ990430_03.0419.C92
Gene No.	107385	Strand	+
Start	278	End	361
Name	OJ990430_03.0419.C92.ol.gs	Method	GENSCAN
Start	278	End	361
GI	none	Score	.55
Exons	278..361		

Seq. No.	50624	Seq. ID	OJ990430_03.0419.C93
Gene No.	107386	Strand	-
Start	119	End	482
Name	OJ990430_03.0419.C93.ol.gs	Method	GENSCAN
Start	119	End	482
GI	none	Score	.94
Exons	119..482		

Seq. No.	50625	Seq. ID	OJ990430_03.0419.C94
Gene No.	107387	Strand	-
Start	598	End	725
Name	OJ990430_03.0419.C94.ol.gs	Method	GENSCAN
Start	598	End	725
GI	none	Score	.62
Exons	598..725		

Seq. No.	50626	Seq. ID	OJ990430_03.0419.C95
Gene No.	107388	Strand	-
Start	442	End	579
Name	OJ990430_03.0419.C95.ol.gs	Method	GENSCAN
Start	442	End	579
GI	none	Score	.67
Exons	442..579		

Seq. No.	50627	Seq. ID	OJ990430_03.0419.C97
Gene No.	107389	Strand	+
Start	142	End	1320
Name	OJ990430_03.0419.C97.ol.gs	Method	GENSCAN
Start	142	End	1320
GI	none	Score	.47
Exons	142..326, 1165..1320		

Seq. No.	50627	Seq. ID	OJ990430_03.0419.C97
Gene No.	107390	Strand	-
Start	918	End	1566
Name	OJ990430_03.0419.C97.ol.np	Method	AAT/NAP
Start	918	End	1566
GI	7340881	Score	134
Exons	918..1002, 1108..1229, 1443..1566		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	50628	Seq. ID	OJ990430_03.0419.C99
Gene No.	107391	Strand	-
Start	863	End	1151
Name	OJ990430_03.0419.C99.o1.gs	Method	GENSCAN
Start	863	End	1151
GI	none	Score	.69
Exons	863..1151		

Seq. No.	50629	Seq. ID	OJ990430_03.0419.C100
Gene No.	107392	Strand	
Start	423	End	757
Name	OJ990430_03.0419.C100.o1.tw	Method	TBLASTX:Wheat
Start	423	End	757
GI	none	Score	77
Exons	423..509, 435..509, 535..597, 536..613, 539..610, 543..611, 602..748, 614..757		

Seq. No.	50630	Seq. ID	OJ990430_03.0419.C102
Gene No.	107393	Strand	+
Start	1	End	959
Name	OJ990430_03.0419.C102.o1.np	Method	AAT/NAP
Start	1	End	938
GI	4680180	Score	643
Exons	1..169, 208..938		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	50630	Seq. ID	OJ990430_03.0419.C102
Gene No.	107393	Strand	+
Start	1	End	959
Name	OJ990430_03.0419.C102.o1.gs	Method	GENSCAN
Start	179	End	959
GI	none	Score	.96
Exons	179..589, 728..959		

Seq. No.	50630	Seq. ID	OJ990430_03.0419.C102
Gene No.	107394	Strand	-
Start	2401	End	3238
Name	OJ990430_03.0419.C102.o2.tm	Method	TBLASTX:Maize
Start	396	End	698
GI	none	Score	330
Exons	396..698, 482..571, 605..697		

Seq. No.	50630	Seq. ID	OJ990430_03.0419.C102
Gene No.	107394	Strand	-
Start	2401	End	3238
Name	OJ990430_03.0419.C102.o1.tw	Method	TBLASTX:Wheat
Start	527	End	1661
GI	none	Score	355
Exons	527..577, 528..908, 629..871, 1626..1661		

Seq. No.	50630	Seq. ID	OJ990430_03.0419.C102
Gene No.	107394	Strand	-
Start	2401	End	3238
Name	OJ990430_03.0419.C102.o1.gp	Method	AAT/GAP
Start	1999	End	2459
GI	2317574	Score	870

Exons 1999..2459

Seq. No.	50630	Seq. ID	OJ990430_03.0419.C102
Gene No.	107394	Strand	-
Start	2401	End	3238
Name	OJ990430_03.0419.C102.o1.tm	Method	TBLASTX:Maize
Start	2374	End	3060
GI	none	Score	78
Exons	2374..2583, 2605..2736, 2740..2913, 2765..2881, 2947..3060, 2954..3043		

Seq. No.	50630	Seq. ID	OJ990430_03.0419.C102
Gene No.	107394	Strand	-
Start	2401	End	3238
Name	OJ990430_03.0419.C102.o1.ts	Method	TBLASTX:Soybean
Start	2374	End	3048
GI	none	Score	57
Exons	2374..2916, 2977..3048		

Seq. No.	50630	Seq. ID	OJ990430_03.0419.C102
Gene No.	107394	Strand	-
Start	2401	End	3238
Name	OJ990430_03.0419.C102.o1.tc	Method	TBLASTX:Cress
Start	2387	End	3066
GI	none	Score	131
Exons	2387..2758, 2404..2742, 2734..2916, 2735..2917, 2947..2973, 2992..3066		

Seq. No.	50630	Seq. ID	OJ990430_03.0419.C102
Gene No.	107394	Strand	-
Start	2401	End	3238
Name	OJ990430_03.0419.C102.o2.gs	Method	GENSCAN
Start	2401	End	3021
GI	none	Score	.86
Exons	2401..3021		

Seq. No.	50630	Seq. ID	OJ990430_03.0419.C102
Gene No.	107394	Strand	-
Start	2401	End	3238
Name	OJ990430_03.0419.C102.o2.np	Method	AAT/NAP
Start	2410	End	3238
GI	7076798	Score	397
Exons	2410..2913, 2950..3238		
GI Descrip.	(AL132975) probable serine/threonine-specific protein kinase [Arabidopsis thaliana]		

Seq. No.	50630	Seq. ID	OJ990430_03.0419.C102
Gene No.	107394	Strand	-
Start	2401	End	3238
Name	OJ990430_03.0419.C102.o2.tw	Method	TBLASTX:Wheat
Start	2549	End	2875
GI	none	Score	101
Exons	2549..2875, 2557..2874		

Seq. No.	50631	Seq. ID	OJ990430_03.0419.C104
Gene No.	107395	Strand	+
Start	802	End	1587

Name	OJ990430_03.0419.C104.o1.gs	Method	GENSCAN
Start	802	End	1587
GI	none	Score	.58
Exons	802..843, 1432..1587		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o1.np	Method	AAT/NAP
Start	1	End	2628
GI	4680203	Score	1755
Exons	1..1344, 1504..1747, 2024..2628		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o3.tw	Method	TBLASTX:Wheat
Start	77	End	604
GI	none	Score	245
Exons	77..481, 145..453, 479..604, 502..591		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o1.ts	Method	TBLASTX:Soybean
Start	181	End	463
GI	none	Score	319
Exons	181..450, 182..463		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o1.tc	Method	TBLASTX:Cress
Start	485	End	832
GI	none	Score	328
Exons	485..832, 496..639, 679..831		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o2.ts	Method	TBLASTX:Soybean
Start	488	End	751
GI	none	Score	226
Exons	488..751, 496..750		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o2.tw	Method	TBLASTX:Wheat
Start	620	End	1081
GI	none	Score	57
Exons	620..676, 628..684, 664..771, 674..778, 785..880, 787..882, 926..1081		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+

Start	1	End	2628
Name	OJ990430_03.0419.C105.o1.tm	Method	TBLASTX:Maize
Start	671	End	1120
GI	none	Score	207
Exons	671..802, 677..919, 730..903, 901..1104, 926..1120, 926..1117		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o3.ts	Method	TBLASTX:Soybean
Start	956	End	1189
GI	none	Score	219
Exons	956..1189, 992..1180		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o3.tm	Method	TBLASTX:Maize
Start	1157	End	1489
GI	none	Score	53
Exons	1157..1255, 1304..1489, 1337..1480		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o4.tw	Method	TBLASTX:Wheat
Start	1300	End	1504
GI	none	Score	161
Exons	1300..1416, 1301..1420, 1301..1417, 1421..1504, 1432..1473		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o4.ts	Method	TBLASTX:Soybean
Start	1592	End	1975
GI	none	Score	85
Exons	1592..1720, 1730..1975		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o1.tw	Method	TBLASTX:Wheat
Start	1631	End	2582
GI	none	Score	478
Exons	1631..2173, 1675..2010, 1778..2164, 2071..2175, 2180..2353, 2378..2449, 2392..2451, 2448..2513, 2452..2514, 2537..2581, 2538..2582		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o2.tm	Method	TBLASTX:Maize
Start	1672	End	1987
GI	none	Score	280
Exons	1672..1968, 1673..1987, 1760..1969		

Seq. No.	50632	Seq. ID	OJ990430_03.0419.C105
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Gene No.	107396	Strand	+
Start	1	End	2628
Name	OJ990430_03.0419.C105.o2.tc	Method	TBLASTX:Cress
Start	1921	End	2344
GI	none	Score	206
Exons	1921..2010, 1922..2173, 2180..2344		

Seq. No.	50633	Seq. ID	OJ990430_03.0419.C106
Gene No.	107397	Strand	+
Start	80	End	506
Name	OJ990430_03.0419.C106.o1.gs	Method	GENSCAN
Start	80	End	506
GI	none	Score	.96
Exons	80..506		

Seq. No.	50633	Seq. ID	OJ990430_03.0419.C106
Gene No.	107398	Strand	+
Start	1033	End	1461
Name	OJ990430_03.0419.C106.o2.gs	Method	GENSCAN
Start	1033	End	1461
GI	none	Score	.8
Exons	1033..1461		

Seq. No.	50634	Seq. ID	OJ990430_03.0419.C110
Gene No.	107399	Strand	-
Start	437	End	492
Name	OJ990430_03.0419.C110.o1.gs	Method	GENSCAN
Start	437	End	492
GI	none	Score	.51
Exons	437..492		

Seq. No.	50635	Seq. ID	OJ990430_03.0419.C112
Gene No.	107400	Strand	-
Start	200	End	1122
Name	OJ990430_03.0419.C112.o1.gs	Method	GENSCAN
Start	200	End	1122
GI	none	Score	.6
Exons	200..349, 840..1122		

Seq. No.	50636	Seq. ID	OJ990430_03.0419.C114
Gene No.	107401	Strand	-
Start	1147	End	1445
Name	OJ990430_03.0419.C114.o2.gs	Method	GENSCAN
Start	1147	End	1445
GI	none	Score	.75
Exons	1147..1335, 1395..1445		

Seq. No.	50637	Seq. ID	OJ990930_05.0421.C5
Gene No.	107402	Strand	+
Start	618	End	2378
Name	OJ990930_05.0421.C5.o1.gs	Method	GENSCAN
Start	618	End	2378
GI	none	Score	.67
Exons	618..722, 1431..1535, 2256..2378		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107403	Strand	+

Start	167	End	1415
Name	OJ990930_05.0421.C6.o1.gs	Method	GENSCAN
Start	167	End	1415
GI	none	Score	.81
Exons	167..210, 303..396, 1054..1121, 1245..1415		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107404	Strand	+
Start	2495	End	2779
Name	OJ990930_05.0421.C6.o2.gs	Method	GENSCAN
Start	2495	End	2779
GI	none	Score	.6
Exons	2495..2779		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107405	Strand	+
Start	4551	End	9014
Name	OJ990930_05.0421.C6.o3.gs	Method	GENSCAN
Start	4551	End	9014
GI	none	Score	.6
Exons	4551..4673, 4795..4936, 5031..5233, 5342..5523, 5654..5938, 6041..6099, 6192..6228, 6326..6397, 6476..7141, 8272..8401, 8496..9014		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107405	Strand	+
Start	4551	End	9014
Name	OJ990930_05.0421.C6.o1.np	Method	AAT/NAP
Start	5898	End	7183
GI	4734014	Score	727
Exons	5898..5938, 6041..6099, 6192..6228, 6326..6397, 6476..7183		
GI Descrip.	(AC007112) unknown protein [Arabidopsis thaliana]		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107406	Strand	+
Start	23852	End	27666
Name	OJ990930_05.0421.C6.o5.gs	Method	GENSCAN
Start	23852	End	27660
GI	none	Score	.92
Exons	23852..24204, 24822..24944, 25031..25127, 25276..25311, 25398..25527, 25550..25585, 26070..26244, 26333..26410, 26949..27051, 27132..27168, 27266..27660		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107406	Strand	+
Start	23852	End	27666
Name	OJ990930_05.0421.C6.o3.np	Method	AAT/NAP
Start	23966	End	27666
GI	6598759	Score	752
Exons	23966..24183, 24822..24944, 25031..25127, 25276..25311, 25398..25585, 25829..25937, 26063..26244, 26333..26410, 26949..27066, 27199..27666		
GI Descrip.	(AC007295) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107407	Strand	+
Start	28634	End	30311

Name	OJ990930_05.0421.C6.o5.np	Method	AAT/NAP
Start	28634	End	30311
GI	7446482	Score	172
Exons	28634..29138, 30221..30311		
GI Descrip.	probable cell wall-plasma membrane linker protein PRP precursor - rape gi 1155068 emb CAA64425.1 (X94976) cell wall-plasma membrane linker protein [Brassica napus]		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107408	Strand	-
Start	10467	End	22857
Name	OJ990930_05.0421.C6.o4.gs	Method	GENSCAN
Start	10467	End	22857
GI	none	Score	.57
Exons	10467..10568, 12891..14663, 16892..17142, 17270..17674, 17691..20067, 20322..20455, 20564..20613, 22760..22857		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107408	Strand	-
Start	10467	End	22857
Name	OJ990930_05.0421.C6.o2.np	Method	AAT/NAP
Start	16148	End	20400
GI	4388818	Score	2490
Exons	16148..19895, 20277..20400		
GI Descrip.	(AC006528) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107409	Strand	-
Start	28285	End	29204
Name	OJ990930_05.0421.C6.o4.np	Method	AAT/NAP
Start	28285	End	29204
GI	1531756	Score	270
Exons	28285..28629, 29007..29204		
GI Descrip.	(X82413) proline-rich-like protein [Asparagus officinalis]		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107409	Strand	-
Start	28285	End	29204
Name	OJ990930_05.0421.C6.o6.gs	Method	GENSCAN
Start	28285	End	29133
GI	none	Score	.86
Exons	28285..29133		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107410	Strand	-
Start	32838	End	33222
Name	OJ990930_05.0421.C6.o7.gs	Method	GENSCAN
Start	32838	End	33222
GI	none	Score	.8
Exons	32838..33026, 33061..33222		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	5045	End	6866

GI	none	Score	52
Exons	5045..5095, 5091..5231, 5105..5242, 5108..5233, 5128..5241, 5341..5445, 5342..5437, 5405..5479, 5413..5523, 5636..5926, 5655..5939, 5883..5939, 6042..6098, 6062..6097, 6062..6100, 6147..6227, 6191..6229, 6194..6226, 6196..6228, 6317..6397, 6318..6395, 6327..6398, 6473..6865, 6474..6866		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o5.ts	Method	TBLASTX:Soybean
Start	5658	End	6140
GI	none	Score	236
Exons	5658..5939, 5699..5944, 6051..6140, 6051..6101		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o4.tc	Method	TBLASTX:Cress
Start	5661	End	5939
GI	none	Score	211
Exons	5661..5939, 5690..5938		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	6473	End	7103
GI	none	Score	376
Exons	6473..6811, 6474..6830, 6849..7103, 6857..7093		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o8.tm	Method	TBLASTX:Maize
Start	6867	End	7123
GI	none	Score	301
Exons	6867..7103, 6869..7123		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o7.ts	Method	TBLASTX:Soybean
Start	8430	End	8627
GI	none	Score	216
Exons	8430..8627		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o10.tm	Method	TBLASTX:Maize
Start	8438	End	8627
GI	none	Score	189
Exons	8438..8602, 8445..8627, 8583..8627		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-

Start	33486	End	33654
Name	OJ990930_05.0421.C6.o2.tm	Method	TBLASTX:Maize
Start	16153	End	16579
GI	none	Score	82
Exons	16153..16251, 16155..16577, 16155..16256, 16157..16579		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o2.ts	Method	TBLASTX:Soybean
Start	16157	End	16555
GI	none	Score	59
Exons	16157..16270, 16158..16256, 16272..16553, 16280..16555		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o3.tc	Method	TBLASTX:Cress
Start	16157	End	16756
GI	none	Score	51
Exons	16157..16366, 16382..16528, 16529..16633, 16628..16756		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o4.tw	Method	TBLASTX:Wheat
Start	16181	End	16616
GI	none	Score	64
Exons	16181..16381, 16197..16382, 16400..16603, 16425..16616		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o3.tm	Method	TBLASTX:Maize
Start	16635	End	17081
GI	none	Score	209
Exons	16635..16946, 16638..16886, 16640..16945, 16867..16953, 16896..17081, 16919..17080		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	16730	End	17510
GI	none	Score	50
Exons	16730..17164, 16749..16934, 16880..17035, 16974..17108, 17011..17109, 17201..17260, 17256..17510, 17295..17402		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o7.tm	Method	TBLASTX:Maize
Start	17084	End	17516
GI	none	Score	39
Exons	17084..17257, 17217..17249, 17256..17513, 17310..17372, 17415..17516		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o3.ts	Method	TBLASTX:Soybean
Start	17307	End	17633
GI	none	Score	175
Exons	17307..17633, 17341..17565		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o5.tc	Method	TBLASTX:Cress
Start	17307	End	17513
GI	none	Score	75
Exons	17307..17510, 17307..17513		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o5.tw	Method	TBLASTX:Wheat
Start	17511	End	17672
GI	none	Score	115
Exons	17511..17633, 17512..17592, 17613..17672		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	17765	End	18336
GI	none	Score	73
Exons	17765..18031, 17872..18030, 18046..18123, 18136..18336		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o4.ts	Method	TBLASTX:Soybean
Start	17905	End	18354
GI	none	Score	54
Exons	17905..18042, 17906..18043, 18028..18123, 18124..18354, 18137..18325, 18145..18345		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o2.tw	Method	TBLASTX:Wheat
Start	17968	End	18574
GI	none	Score	138
Exons	17968..18030, 18049..18573, 18164..18574		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o5.tm	Method	TBLASTX:Maize
Start	18145	End	18588
GI	none	Score	106
Exons	18145..18588, 18146..18394, 18235..18399		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o3.tw	Method	TBLASTX:Wheat
Start	19279	End	19704
GI	none	Score	46
Exons	19279..19350, 19279..19332, 19350..19445, 19408..19470, 19433..19459, 19462..19572, 19463..19555, 19468..19557, 19552..19704, 19559..19684, 19561..19647		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o8.ts	Method	TBLASTX:Soybean
Start	25389	End	26110
GI	none	Score	214
Exons	25389..25586, 25389..25460, 25465..25551, 25830..25871, 26063..26110		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o9.tm	Method	TBLASTX:Maize
Start	25405	End	25875
GI	none	Score	268
Exons	25405..25581, 25407..25586, 25439..25585, 25833..25874, 25833..25874, 25834..25875		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o6.tm	Method	TBLASTX:Maize
Start	26061	End	26417
GI	none	Score	165
Exons	26061..26240, 26061..26240, 26063..26245, 26068..26241, 26298..26402, 26334..26417, 26336..26416		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o4.tm	Method	TBLASTX:Maize
Start	28243	End	33005
GI	none	Score	225
Exons	28243..28533, 28295..28537, 28427..28537, 29116..29160, 32880..33005		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o2.tc	Method	TBLASTX:Cress
Start	28288	End	33008
GI	none	Score	77
Exons	28288..28446, 28462..28530, 32859..33008		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654

Name	OJ990930_05.0421.C6.o6.ts	Method	TBLASTX:Soybean
Start	28288	End	33008
GI	none	Score	46
Exons	28288..28446, 28292..28333, 28391..28447, 28462..28530, 28463..28534, 32859..33008		

Seq. No.	50638	Seq. ID	OJ990930_05.0421.C6
Gene No.	107411	Strand	-
Start	33486	End	33654
Name	OJ990930_05.0421.C6.o8.gs	Method	GENSCAN
Start	33486	End	33654
GI	none	Score	.93
Exons	33486..33610, 33618..33654		

Seq. No.	50639	Seq. ID	OJ990930_05.0421.C7
Gene No.	107412	Strand	+
Start	228	End	2734
Name	OJ990930_05.0421.C7.o1.gs	Method	GENSCAN
Start	228	End	2734
GI	none	Score	.79
Exons	228..276, 1762..1924, 1993..2068, 2405..2429, 2550..2734		

Seq. No.	50639	Seq. ID	OJ990930_05.0421.C7
Gene No.	107413	Strand	-
Start	3643	End	10184
Name	OJ990930_05.0421.C7.o1.gp	Method	AAT/GAP
Start	3336	End	3926
GI	4716401	Score	792
Exons	3336..3682, 3856..3926		

Seq. No.	50639	Seq. ID	OJ990930_05.0421.C7
Gene No.	107413	Strand	-
Start	3643	End	10184
Name	OJ990930_05.0421.C7.o2.gs	Method	GENSCAN
Start	3643	End	10184
GI	none	Score	.63
Exons	3643..3682, 3856..3999, 4290..4365, 5623..5693, 6689..6816, 6903..6979, 7054..7147, 7581..7666, 8285..8593, 9152..9325, 9421..10184		

Seq. No.	50639	Seq. ID	OJ990930_05.0421.C7
Gene No.	107413	Strand	-
Start	3643	End	10184
Name	OJ990930_05.0421.C7.o1.np	Method	AAT/NAP
Start	3646	End	8628
GI	5903052	Score	1081
Exons	3646..3682, 3856..3999, 4290..4365, 5623..5693, 5894..5965, 6689..6803, 6893..6979, 7054..7147, 7581..7666, 8178..8253, 8346..8628		

GI Descrip. (AC008016) Contains PF|00561 alpha/beta hydrolase fold.
[Arabidopsis thaliana]

Seq. No.	50639	Seq. ID	OJ990930_05.0421.C7
Gene No.	107413	Strand	-
Start	3643	End	10184
Name	OJ990930_05.0421.C7.o2.ts	Method	TBLASTX:Soybean
Start	3854	End	4011

GI	none	Score	117
Exons	3854..3997, 3855..4001, 3855..3998, 3856..4011		
Seq. No.	50639	Seq. ID	OJ990930_05.0421.C7
Gene No.	107413	Strand	-
Start	3643	End	10184
Name	OJ990930_05.0421.C7.o2.tc	Method	TBLASTX:Cress
Start	3855	End	6799
GI	none	Score	110
Exons	3855..4007, 3856..4008, 5624..5692, 5628..5693, 5887..5973, 5888..5968, 5890..5973, 6688..6789, 6689..6799		

Seq. No.	50639	Seq. ID	OJ990930_05.0421.C7
Gene No.	107413	Strand	-
Start	3643	End	10184
Name	OJ990930_05.0421.C7.o1.ts	Method	TBLASTX:Soybean
Start	4289	End	8468
GI	none	Score	95
Exons	4289..4348, 5624..5692, 5873..5962, 5884..5976, 6689..6799, 6691..6789, 6783..6842, 6903..6983, 6903..6998, 7013..7147, 7056..7142, 7578..7667, 8167..8253, 8177..8254, 8346..8468, 8350..8448		

Seq. No.	50639	Seq. ID	OJ990930_05.0421.C7
Gene No.	107413	Strand	-
Start	3643	End	10184
Name	OJ990930_05.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	6915	End	8373
GI	none	Score	55
Exons	6915..6977, 6915..6980, 7058..7147, 7060..7122, 7062..7148, 8179..8253, 8180..8254, 8341..8373, 8341..8373		

Seq. No.	50639	Seq. ID	OJ990930_05.0421.C7
Gene No.	107413	Strand	-
Start	3643	End	10184
Name	OJ990930_05.0421.C7.o1.tc	Method	TBLASTX:Cress
Start	7097	End	8516
GI	none	Score	79
Exons	7097..7147, 7578..7667, 7585..7689, 8164..8253, 8177..8254, 8341..8445, 8346..8516		

Seq. No.	50639	Seq. ID	OJ990930_05.0421.C7
Gene No.	107413	Strand	-
Start	3643	End	10184
Name	OJ990930_05.0421.C7.o2.gp	Method	AAT/GAP
Start	8451	End	8762
GI	LIB3432-048-P2-K1-G7	Score	586
Exons	8451..8762		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl17804'		

Seq. No.	50639	Seq. ID	OJ990930_05.0421.C7
Gene No.	107413	Strand	-
Start	3643	End	10184
Name	OJ990930_05.0421.C7.o2.np	Method	AAT/NAP
Start	8483	End	9748
GI	6523547	Score	106

Exons 8483..8742, 9405..9748
GI Descrip. (AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]

Seq. No. 50640 Seq. ID OJ990930_05.0421.C8
Gene No. 107414 Strand +
Start 3696 End 15946
Name OJ990930_05.0421.C8.o2.gs Method GENSCAN
Start 3696 End 15946
GI none Score .55
Exons 3696..4058, 4641..4726, 5101..5220, 5835..5856, 7173..7194, 7425..7585, 7597..7671, 8254..8649, 9287..9438, 9655..9790, 9900..10055, 10128..10265, 10935..11147, 11637..12101, 12223..12318, 13342..13604, 13753..14022, 14281..15409, 15890..15946

Seq. No. 50640 Seq. ID OJ990930_05.0421.C8
Gene No. 107414 Strand +
Start 3696 End 15946
Name OJ990930_05.0421.C8.o3.np Method AAT/NAP
Start 7494 End 7679
GI 7340868 Score 151
Exons 7494..7679
GI Descrip. (AP001551) hypothetical protein [Oryza sativa]

Seq. No. 50640 Seq. ID OJ990930_05.0421.C8
Gene No. 107414 Strand +
Start 3696 End 15946
Name OJ990930_05.0421.C8.o4.np Method AAT/NAP
Start 8464 End 10518
GI 6647445 Score 798
Exons 8464..8649, 9085..9171, 9284..9438, 9655..9790, 9900..10055, 10186..10265, 10428..10518
GI Descrip. PROBABLE COATOMER EPSILON SUBUNIT (EPSILON-COAT PROTEIN) (EPSILON-COP) gi|7484874|pir||T00466 coatomer complex epsilon chain homolog F19I3.7 - Arabidopsis thaliana gi|3033380|gb|AAC12824.1| (AC004238) putative coatomer epsilon subunit [Arabidopsis thaliana]

Seq. No. 50640 Seq. ID OJ990930_05.0421.C8
Gene No. 107414 Strand +
Start 3696 End 15946
Name OJ990930_05.0421.C8.o5.np Method AAT/NAP
Start 11624 End 15895
GI 7489227 Score 2294
Exons 11624..11785, 11901..12101, 12223..12400, 13342..13604, 13753..14022, 14281..15409, 15809..15895
GI Descrip. chloride channel protein homolog CLC1 - potato gi|1773014|emb|CAA71369.1| (Y10338) chloride channel Stclcl [Solanum tuberosum]

Seq. No. 50640 Seq. ID OJ990930_05.0421.C8
Gene No. 107415 Strand -
Start 138 End 2654
Name OJ990930_05.0421.C8.o1.gs Method GENSCAN
Start 138 End 2654
GI none Score .74

Exons 138..472, 544..973, 1485..1605, 2275..2654

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107415	Strand	-
Start	138	End	2654
Name	OJ990930_05.0421.C8.o1.np	Method	AAT/NAP
Start	1378	End	2347
GI	4874303	Score	89
Exons	1378..1605, 2275..2347		
GI Descrip.	(AC006053) putative transcription elongation factor S-II [Arabidopsis thaliana]		

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107416	Strand	-
Start	4554	End	7697
Name	OJ990930_05.0421.C8.o2.np	Method	AAT/NAP
Start	4554	End	7697
GI	7106516	Score	183
Exons	4554..4615, 6738..6903, 7640..7697		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o8.tm	Method	TBLASTX:Maize
Start	8338	End	9381
GI	none	Score	43
Exons	8338..8379, 8481..8555, 8485..8589, 8575..8652, 9082..9189, 9082..9162, 9084..9179, 9283..9381, 9284..9379		

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o2.ts	Method	TBLASTX:Soybean
Start	8484	End	10518
GI	none	Score	91
Exons	8484..8546, 8485..8544, 8572..8670, 9076..9159, 9084..9158, 9277..9438, 9284..9439, 9629..9790, 9659..9796, 9885..10055, 9899..10057, 10173..10244, 10183..10257, 10184..10231, 10393..10518, 10416..10502		

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o2.tc	Method	TBLASTX:Cress
Start	9302	End	10521
GI	none	Score	157
Exons	9302..9439, 9310..9435, 9317..9445, 9654..9770, 9655..9774, 9659..9796, 9665..9784, 9885..10055, 9890..10057, 10183..10263, 10185..10229, 10390..10521, 10422..10502		

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o3.tm	Method	TBLASTX:Maize
Start	9382	End	10060
GI	none	Score	82

Exons 9382..9438, 9383..9439, 9614..9784, 9630..9791, 9654..9791,
9655..9795, 9656..9796, 9891..10055, 9899..10060, 9899..10057

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	11712	End	15883
GI	none	Score	97

Exons 11712..11786, 11723..11785, 11902..12093, 11907..12104,
12208..12396, 12221..12403, 13332..13607, 13333..13605,
13729..13893, 13754..14023, 13918..13965, 14282..14398,
14392..15111, 14393..14785, 14746..14976, 14840..15085,
15001..15141, 15003..15140, 15202..15396, 15203..15403,
15808..15876, 15809..15883, 15809..15877

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o4.tm	Method	TBLASTX:Maize
Start	11712	End	12111
GI	none	Score	106

Exons 11712..11786, 11717..11785, 11894..11983, 11895..11984,
11901..12101, 11902..12102, 12046..12111

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o7.tm	Method	TBLASTX:Maize
Start	12199	End	12403
GI	none	Score	202

Exons 12199..12402, 12209..12403

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o5.tm	Method	TBLASTX:Maize
Start	13462	End	14023
GI	none	Score	193

Exons 13462..13605, 13464..13607, 13468..13638, 13729..13965,
13744..14022, 13754..14023

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	14282	End	14782
GI	none	Score	599

Exons 14282..14782, 14284..14445, 14357..14665, 14461..14778

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o3.ts	Method	TBLASTX:Soybean
Start	14300	End	14569
GI	none	Score	255

Exons 14300..14569, 14461..14568

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	14737	End	15385
GI	none	Score	66
Exons	14737..15147, 14741..14785, 14754..14945, 14840..15088, 14899..15147, 15202..15381, 15203..15385		

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o1.tw	Method	TBLASTX:Wheat
Start	14798	End	15150
GI	none	Score	298
Exons	14798..14968, 14809..15150, 14840..15088		

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o2.tm	Method	TBLASTX:Maize
Start	14885	End	15321
GI	none	Score	506
Exons	14885..15319, 14885..15319, 14887..15321, 14887..15321		

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o6.tm	Method	TBLASTX:Maize
Start	15322	End	15963
GI	none	Score	95
Exons	15322..15408, 15323..15409, 15327..15410, 15777..15932, 15806..15937, 15808..15963		

Seq. No.	50640	Seq. ID	OJ990930_05.0421.C8
Gene No.	107417	Strand	-
Start	16296	End	16381
Name	OJ990930_05.0421.C8.o3.gs	Method	GENSCAN
Start	16296	End	16381
GI	none	Score	.76
Exons	16296..16381		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107418	Strand	+
Start	401	End	4754
Name	OJ990930_05.0421.C9.o1.gs	Method	GENSCAN
Start	401	End	4754
GI	none	Score	.91
Exons	401..505, 1208..1312, 1553..1673, 2219..2340, 2756..2857, 2950..3024, 3115..3194, 3325..3475, 3574..3804, 3945..4241, 4362..4475, 4581..4754		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107418	Strand	+
Start	401	End	4754
Name	OJ990930_05.0421.C9.o1.np	Method	AAT/NAP

Start 401 End 4724
 GI 3935150 Score 1532
 Exons 401..505, 1402..1452, 1553..1673, 2219..2340, 2756..2857,
 2950..3059, 3278..3475, 3574..3804, 3945..4241, 4362..4475,
 4581..4724

GI Descrip. (AC005106) T25N20.14 [Arabidopsis thaliana]

Seq. No. 50641 Seq. ID OJ990930_05.0421.C9
 Gene No. 107418 Strand +
 Start 401 End 4754
 Name OJ990930_05.0421.C9.o1.gp Method AAT/GAP
 Start 3574 End 3982
 GI LIB3433-019-P1-K1-D11 Score 792
 Exons 3574..3982
 GI Descrip. '3935150 6.0e-22 (AC005106) T25N20.14 [Arabidopsis thaliana]'

Seq. No. 50641 Seq. ID OJ990930_05.0421.C9
 Gene No. 107419 Strand +
 Start 6267 End 17798
 Name OJ990930_05.0421.C9.o5.ts Method TBLASTX:Soybean
 Start 400 End 3409
 GI none Score 74
 Exons 400..462, 401..511, 1174..1311, 1208..1315, 1375..1449,
 1544..1687, 1552..1674, 2215..2370, 2218..2343, 2231..2350,
 2722..2856, 2738..2857, 2750..2857, 2947..3024, 2947..2982,
 2973..3023, 3109..3192, 3129..3203, 3322..3408, 3323..3409

Seq. No. 50641 Seq. ID OJ990930_05.0421.C9
 Gene No. 107419 Strand +
 Start 6267 End 17798
 Name OJ990930_05.0421.C9.o2.tc Method TBLASTX:Cress
 Start 401 End 1663
 GI none Score 77
 Exons 401..463, 1174..1299, 1208..1315, 1399..1449, 1544..1663,
 1552..1662

Seq. No. 50641 Seq. ID OJ990930_05.0421.C9
 Gene No. 107419 Strand +
 Start 6267 End 17798
 Name OJ990930_05.0421.C9.o3.tm Method TBLASTX:Maize
 Start 1637 End 3225
 GI none Score 70
 Exons 1637..1687, 2218..2343, 2218..2358, 2250..2357, 2736..2846,
 2755..2856, 2756..2857, 2947..3024, 2949..3026, 2973..3023,
 3109..3192, 3112..3225

Seq. No. 50641 Seq. ID OJ990930_05.0421.C9
 Gene No. 107419 Strand +
 Start 6267 End 17798
 Name OJ990930_05.0421.C9.o1.tc Method TBLASTX:Cress
 Start 2239 End 3412
 GI none Score 118
 Exons 2239..2343, 2737..2856, 2738..2857, 2947..3024, 2973..3026,
 3109..3192, 3114..3206, 3300..3410, 3322..3411, 3323..3412

Seq. No. 50641 Seq. ID OJ990930_05.0421.C9
 Gene No. 107419 Strand +

Start	6267	End	17798
Name	OJ990930_05.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	2979	End	4463
GI	none	Score	66
Exons	2979..3026, 2982..3026, 3109..3192, 3112..3198, 3114..3206, 3312..3446, 3322..3474, 3322..3450, 3323..3475, 3574..3687, 3574..3684, 3593..3685, 4359..4463		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	3312	End	4786
GI	none	Score	254
Exons	3312..3440, 3322..3450, 3323..3475, 3347..3460, 3511..3723, 3574..3834, 3576..3812, 3687..3839, 3716..3877, 3935..4243, 3942..4256, 3942..4241, 3944..4243, 4359..4475, 4359..4463, 4360..4461, 4362..4475, 4363..4476, 4539..4742, 4568..4786, 4581..4754, 4583..4774		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o6.ts	Method	TBLASTX:Soybean
Start	3574	End	4394
GI	none	Score	76
Exons	3574..3627, 3583..3840, 3583..3840, 3942..4115, 3942..4031, 4046..4243, 4056..4256, 4092..4250, 4359..4394, 4360..4392, 4361..4393		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o3.ts	Method	TBLASTX:Soybean
Start	4395	End	4724
GI	none	Score	126
Exons	4395..4475, 4397..4465, 4544..4723, 4581..4724, 4677..4724		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o3.tc	Method	TBLASTX:Cress
Start	4437	End	4724
GI	none	Score	53
Exons	4437..4475, 4568..4723, 4581..4724		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o2.gs	Method	GENSCAN
Start	6267	End	17791
GI	none	Score	.77
Exons	6267..6661, 8353..8381, 8893..9030, 9672..9733, 10026..10118, 10414..10486, 13311..13616, 13702..13760, 13873..14004, 14139..14180, 14285..14818, 14914..15104, 15263..15752, 15998..16060, 16620..16940, 17019..17111, 17209..17310, 17443..17547, 17658..17791		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o2.gp	Method	AAT/GAP
Start	8812	End	13458
GI	43397_1.R1084	Score	1035
Exons	8812..9030, 9672..9733, 10026..10118, 10414..10486, 13311..13458		
GI Descrip.	'5103827/gb AAD39657.1 AC007591_22 2.0e-25 (AC007591) ESTs gb_F20110 and gb_F20109 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o2.np	Method	AAT/NAP
Start	8955	End	17793
GI	5103827	Score	2006
Exons	8955..9030, 9669..9733, 10026..10118, 10414..10486, 13311..13400, 13476..13626, 13709..13760, 13873..14004, 14285..14821, 14887..15001, 15038..15104, 15263..15752, 15998..16060, 16429..16534, 16624..16940, 17019..17111, 17209..17310, 17443..17547, 17658..17793		
GI Descrip.	(AC007591) ESTs gb F20110 and gb F20109 come from this gene. [Arabidopsis thaliana]		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o4.ts	Method	TBLASTX:Soybean
Start	14376	End	14821
GI	none	Score	257
Exons	14376..14543, 14378..14746, 14443..14676, 14765..14821		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o4.tm	Method	TBLASTX:Maize
Start	14901	End	15133
GI	none	Score	199
Exons	14901..15080, 14902..15081, 14926..15087, 15067..15132, 15070..15126, 15071..15133		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o5.tm	Method	TBLASTX:Maize
Start	15300	End	15500
GI	none	Score	240
Exons	15300..15500, 15300..15494		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	15690	End	16904
GI	none	Score	71

Exons 15690..15758, 15997..16065, 15998..16060, 16434..16535,
16435..16539, 16613..16903, 16614..16904

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	16419	End	17708
GI	none	Score	162
Exons	16419..16532, 16425..16532, 16426..16539, 16542..16586, 16619..16642, 16620..16643, 16641..16697, 16648..16695, 16649..16696, 16685..16942, 16698..16970, 16723..16947, 16995..17111, 17017..17061, 17018..17110, 17206..17310, 17206..17310, 17208..17315, 17439..17489, 17439..17546, 17440..17547, 17441..17569, 17523..17570, 17589..17708, 17658..17708		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o2.ts	Method	TBLASTX:Soybean
Start	17217	End	17798
GI	none	Score	139
Exons	17217..17321, 17221..17310, 17439..17543, 17440..17547, 17465..17548, 17523..17570, 17654..17797, 17658..17786, 17667..17798, 17668..17793		

Seq. No.	50641	Seq. ID	OJ990930_05.0421.C9
Gene No.	107419	Strand	+
Start	6267	End	17798
Name	OJ990930_05.0421.C9.o3.gp	Method	AAT/GAP
Start	17444	End	17798
GI	1631409	Score	432
Exons	17444..17547, 17658..17798		
GI Descrip.	5852188/emb CAB55426.1 1.0e-49 (AL117265) zhb0018.1 [Oryza sativa]		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107420	Strand	+
Start	305	End	4256
Name	OJ990930_05.0421.C10.o1.np	Method	AAT/NAP
Start	305	End	4256
GI	5852188	Score	3177
Exons	305..439, 1410..2955, 3695..3766, 4066..4256		
GI Descrip.	(AL117265) zhb0018.1 [Oryza sativa]		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107420	Strand	+
Start	305	End	4256
Name	OJ990930_05.0421.C10.o1.gp	Method	AAT/GAP
Start	718	End	1776
GI	24702 1.R1084	Score	735
Exons	718..791, 1410..1776		
GI Descrip.	'5852188/emb CAB55426.1 1.0e-49 (AL117265) zhb0018.1 [Oryza sativa]'		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
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Gene No.	107420	Strand	+
Start	305	End	4256
Name	OJ990930_05.0421.C10.o2.gp	Method	AAT/GAP
Start	2122	End	2565
GI	39911_1.R1084	Score	866
Exons	2122..2565		
GI Descrip.	'5852188/emb CAB55426.1 5.0e-67 (AL117265) zhb0018.1 [Oryza sativa]'		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107420	Strand	+
Start	305	End	4256
Name	OJ990930_05.0421.C10.o3.gp	Method	AAT/GAP
Start	2697	End	3304
GI	11974_1.R1084	Score	1131
Exons	2697..3304		
GI Descrip.	'5852188/emb CAB55426.1 2.0e-36 (AL117265) zhb0018.1 [Oryza sativa]'		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107421	Strand	+
Start	10037	End	10511
Name	OJ990930_05.0421.C10.o4.np	Method	AAT/NAP
Start	10037	End	10511
GI	5852185	Score	665
Exons	10037..10157, 10234..10511		
GI Descrip.	(AL117265) zhb0015.1 [Oryza sativa]		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107422	Strand	-
Start	7262	End	8090
Name	OJ990930_05.0421.C10.o2.gs	Method	GENSCAN
Start	7262	End	7870
GI	none	Score	.97
Exons	7262..7870		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107422	Strand	-
Start	7262	End	8090
Name	OJ990930_05.0421.C10.o2.np	Method	AAT/NAP
Start	7265	End	7870
GI	5852187	Score	1020
Exons	7265..7870		
GI Descrip.	(AL117265) zhb0017.1 [Oryza sativa]		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107422	Strand	-
Start	7262	End	8090
Name	OJ990930_05.0421.C10.o4.gp	Method	AAT/GAP
Start	7710	End	8090
GI	75921_1.R1084	Score	734
Exons	7710..8090		
GI Descrip.	'5852187/emb CAB55425.1 3.0e-10 (AL117265) zhb0017.1 [Oryza sativa]'		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107423	Strand	-

Start	8448	End	9353
Name	OJ990930_05.0421.C10.o3.np	Method	AAT/NAP
Start	8448	End	9353
GI	5852186	Score	1290
Exons	8448..8581, 8762..9353		
GI Descrip.	(AL117265) zhb0016.1 [Oryza sativa]		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107424	Strand	-
Start	9592	End	10355
Name	OJ990930_05.0421.C10.o2.tm	Method	TBLASTX:Maize
Start	297	End	1835
GI	none	Score	79
Exons	297..380, 305..439, 306..449, 307..441, 516..641, 526..639, 708..791, 709..789, 710..799, 1407..1598, 1408..1605, 1600..1830, 1601..1831, 1601..1834, 1602..1835		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107424	Strand	-
Start	9592	End	10355
Name	OJ990930_05.0421.C10.o1.ts	Method	TBLASTX:Soybean
Start	303	End	641
GI	none	Score	189
Exons	303..449, 305..439, 516..641, 526..639		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107424	Strand	-
Start	9592	End	10355
Name	OJ990930_05.0421.C10.o1.tc	Method	TBLASTX:Cress
Start	305	End	782
GI	none	Score	200
Exons	305..439, 306..398, 307..441, 409..435, 516..641, 526..663, 708..782, 708..770		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107424	Strand	-
Start	9592	End	10355
Name	OJ990930_05.0421.C10.o3.tm	Method	TBLASTX:Maize
Start	1836	End	2107
GI	none	Score	250
Exons	1836..2069, 1836..2009, 1840..2106, 1840..2088, 1841..2107		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107424	Strand	-
Start	9592	End	10355
Name	OJ990930_05.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	2108	End	3293
GI	none	Score	435
Exons	2108..2578, 2110..2577, 2118..2642, 2118..2585, 2607..2882, 2626..2886, 2630..2860, 2633..2896, 2640..2882, 2859..3074, 2882..3076, 2915..3073, 3184..3240, 3187..3231, 3258..3293		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107424	Strand	-
Start	9592	End	10355
Name	OJ990930_05.0421.C10.o1.tw	Method	TBLASTX:Wheat
Start	2119	End	2550

GI	none	Score	52
Exons	2119..2166, 2121..2204, 2178..2390, 2179..2400, 2181..2399, 2399..2548, 2399..2548, 2400..2549, 2401..2550		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107424	Strand	-
Start	9592	End	10355
Name	OJ990930_05.0421.C10.o4.tm	Method	TBLASTX:Maize
Start	5673	End	5964
GI	none	Score	78
Exons	5673..5771, 5766..5963, 5778..5909, 5857..5964		

Seq. No.	50642	Seq. ID	OJ990930_05.0421.C10
Gene No.	107424	Strand	-
Start	9592	End	10355
Name	OJ990930_05.0421.C10.o4.gs	Method	GENSCAN
Start	9592	End	10355
GI	none	Score	.6
Exons	9592..9741, 9864..9942, 9993..10119, 10220..10355		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107425	Strand	+
Start	46	End	792
Name	OJ990930_05.0421.C11.o1.gs	Method	GENSCAN
Start	46	End	792
GI	none	Score	.51
Exons	46..792		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107425	Strand	+
Start	46	End	792
Name	OJ990930_05.0421.C11.o1.np	Method	AAT/NAP
Start	46	End	789
GI	5852184	Score	1258
Exons	46..789		
GI Descrip.	(AL117265) zhb0014.1 [Oryza sativa]		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107426	Strand	+
Start	14830	End	23974
Name	OJ990930_05.0421.C11.o5.np	Method	AAT/NAP
Start	14830	End	23974
GI	5852180	Score	1567
Exons	14830..14938, 16289..17006, 18095..18172, 18452..18726, 18971..19159, 20555..20894, 23351..23398, 23619..23974		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107426	Strand	+
Start	14830	End	23974
Name	OJ990930_05.0421.C11.o4.gp	Method	AAT/GAP
Start	15714	End	16002
GI	LIB3431-028-P1-K1-C3	Score	484
Exons	15714..16002		
GI Descrip.	'4176420/dbj BAA37167 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107426	Strand	+
Start	14830	End	23974
Name	OJ990930_05.0421.C11.o5.gp	Method	AAT/GAP
Start	17035	End	17290
GI	2721.1.R1084	Score	215
Exons	17035..17170, 17262..17290		
GI Descrip.	'114622/sp P12087 ATPF_ORYSA 1.0e-20 ATP SYNTHASE B CHAIN (SUBUNIT I) >gi_67929_pir_LWRZ1 H+-transporting ATP synthase (EC 3.6.1.34) chain I - rice chloroplast >gi_669080_emb_CAA33992 (X15901) ATPase I subunit [Oryza sativa] >gi_226695_prf_1603356W ATPase I [Oryza sativa]'		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107427	Strand	-
Start	1224	End	4536
Name	OJ990930_05.0421.C11.o2.gs	Method	GENSCAN
Start	1224	End	4536
GI	none	Score	.72
Exons	1224..1286, 1520..1688, 1734..1851, 2209..2310, 2894..2981, 3102..3311, 4271..4386, 4470..4536		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107427	Strand	-
Start	1224	End	4536
Name	OJ990930_05.0421.C11.o2.np	Method	AAT/NAP
Start	1508	End	4536
GI	5852183	Score	1294
Exons	1508..1688, 1734..1851, 2209..2310, 2894..2981, 3102..3311, 4271..4386, 4470..4536		
GI Descrip.	(AL117265) zhb0013.1 [Oryza sativa]		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107428	Strand	-
Start	4552	End	4657
Name	OJ990930_05.0421.C11.o1.gp	Method	AAT/GAP
Start	4552	End	4657
GI	uC-osflm202109b05b1	Score	166
Exons	4552..4657		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-139 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107429	Strand	-
Start	6558	End	8313
Name	OJ990930_05.0421.C11.o3.gs	Method	GENSCAN
Start	6558	End	8153
GI	none	Score	.56
Exons	6558..6767, 7392..7460, 7624..7664, 8057..8153		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107429	Strand	-
Start	6558	End	8313
Name	OJ990930_05.0421.C11.o3.np	Method	AAT/NAP
Start	6561	End	8153
GI	5852182	Score	686
Exons	6561..6892, 7624..7664, 8057..8153		

GI Descrip. (AL117265) zhb0012.1 [Oryza sativa]

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107429	Strand	-
Start	6558	End	8313
Name	OJ990930_05.0421.C11.o2.gp	Method	AAT/GAP
Start	7999	End	8313
GI	2431417	Score	534

Exons 7999..8313
GI Descrip. 5852170/emb|AL117265.1|OST17804 1.0e-139 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl7804

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107430	Strand	-
Start	8877	End	14955
Name	OJ990930_05.0421.C11.o4.gs	Method	GENSCAN
Start	8877	End	14169
GI	none	Score	.52
Exons	8877..9057, 9063..10285, 10682..10901, 11040..11092, 11171..11473, 11576..11746, 11772..11921, 12777..12881, 13809..13996, 14076..14169		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107430	Strand	-
Start	8877	End	14955
Name	OJ990930_05.0421.C11.o4.np	Method	AAT/NAP
Start	8880	End	14169
GI	5852181	Score	4258
Exons	8880..10285, 10682..10901, 11040..11092, 11171..11473, 11576..11746, 11772..11921, 12777..12881, 13809..13996, 14076..14169		

GI Descrip. (AL117265) zhb0011.1 [Oryza sativa]

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107430	Strand	-
Start	8877	End	14955
Name	OJ990930_05.0421.C11.o3.gp	Method	AAT/GAP
Start	12474	End	14955
GI	102 6.R1084	Score	1576
Exons	12474..12881, 13809..13996, 14076..14213, 14799..14955		
GI Descrip.	'2911068/emb CAA17530.1 1.0e-78 (AL021960) G10-like protein [Arabidopsis thaliana]'		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107431	Strand	-
Start	20761	End	21175
Name	OJ990930_05.0421.C11.o2.tm	Method	TBLASTX:Maize
Start	1011	End	3356
GI	none	Score	40
Exons	1011..1031, 1049..1120, 1222..1287, 1227..1295, 1228..1287, 1517..1654, 1518..1655, 1518..1655, 1562..1660, 1732..1851, 1733..1867, 1734..1865, 2111..2137, 2209..2310, 2214..2312, 2214..2315, 2258..2338, 2380..2445, 2381..2440, 2385..2456, 2745..2963, 2746..2928, 2766..2963, 3093..3188, 3102..3188, 3103..3201, 3168..3356, 3177..3335, 3190..3348		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
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Gene No.	107431	Strand	-
Start	20761	End	21175
Name	OJ990930_05.0421.C11.o2.ts	Method	TBLASTX:Soybean
Start	1224	End	2320
GI	none	Score	141
Exons	1224..1295, 1517..1654, 1518..1655, 1518..1655, 1562..1660, 1732..1851, 1733..1867, 1734..1850, 1735..1851, 1915..1950, 2211..2315, 2258..2320		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107431	Strand	-
Start	20761	End	21175
Name	OJ990930_05.0421.C11.o3.tm	Method	TBLASTX:Maize
Start	9629	End	9931
GI	none	Score	135
Exons	9629..9799, 9629..9799, 9687..9800, 9688..9801, 9696..9842, 9807..9890, 9809..9931, 9817..9891, 9897..9926		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107431	Strand	-
Start	20761	End	21175
Name	OJ990930_05.0421.C11.o1.tw	Method	TBLASTX:Wheat
Start	12653	End	13977
GI	none	Score	37
Exons	12653..12697, 12691..12891, 12725..12892, 12726..12884, 12733..12891, 13778..13975, 13785..13976, 13810..13977		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107431	Strand	-
Start	20761	End	21175
Name	OJ990930_05.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	12722	End	14184
GI	none	Score	176
Exons	12722..12883, 12726..12884, 12729..12884, 12730..12891, 13785..13997, 13803..13997, 13810..14001, 14065..14184, 14077..14184		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107431	Strand	-
Start	20761	End	21175
Name	OJ990930_05.0421.C11.o1.ts	Method	TBLASTX:Soybean
Start	12724	End	14173
GI	none	Score	221
Exons	12724..12891, 12726..12884, 13785..13997, 13803..13997, 13810..14001, 14074..14169, 14077..14169, 14078..14173		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107431	Strand	-
Start	20761	End	21175
Name	OJ990930_05.0421.C11.o1.tc	Method	TBLASTX:Cress
Start	12726	End	14175
GI	none	Score	169
Exons	12726..12878, 12730..12879, 13785..13895, 13810..13893, 13811..13900, 13896..13997, 13897..14001, 13899..13997, 14068..14175, 14069..14173, 14074..14175		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
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Gene No.	107431	Strand	-
Start	20761	End	21175
Name	OJ990930_05.0421.C11.o4.tm	Method	TBLASTX:Maize
Start	17034	End	17205
GI	none	Score	218
Exons	17034..17168, 17035..17166, 17134..17205		

Seq. No.	50643	Seq. ID	OJ990930_05.0421.C11
Gene No.	107431	Strand	-
Start	20761	End	21175
Name	OJ990930_05.0421.C11.o6.gs	Method	GENSCAN
Start	20761	End	21175
GI	none	Score	.51
Exons	20761..20800, 21027..21175		

Seq. No.	50644	Seq. ID	OJ990930_09.0421.C2
Gene No.	107432	Strand	+
Start	149	End	521
Name	OJ990930_09.0421.C2.o1.gs	Method	GENSCAN
Start	149	End	521
GI	none	Score	.91
Exons	149..384, 443..521		

Seq. No.	50645	Seq. ID	OJ990930_09.0421.C4
Gene No.	107433	Strand	-
Start	1	End	861
Name	OJ990930_09.0421.C4.o1.np	Method	AAT/NAP
Start	1	End	861
GI	6063557	Score	93
Exons	1..22, 420..564, 801..861		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	50646	Seq. ID	OJ990930_09.0421.C6
Gene No.	107434	Strand	-
Start	1	End	747
Name	OJ990930_09.0421.C6.o1.gp	Method	AAT/GAP
Start	1	End	747
GI	22170_1.R1084	Score	1424
Exons	1..747		
GI Descrip.	'404690 6.0e-28 (L19075) cytochrome P450 [Catharanthus roseus]'		

Seq. No.	50646	Seq. ID	OJ990930_09.0421.C6
Gene No.	107434	Strand	-
Start	1	End	747
Name	OJ990930_09.0421.C6.o1.gs	Method	GENSCAN
Start	539	End	658
GI	none	Score	.54
Exons	539..658		

Seq. No.	50647	Seq. ID	OJ990930_09.0421.C7
Gene No.	107435	Strand	+
Start	1	End	1199
Name	OJ990930_09.0421.C7.o1.np	Method	AAT/NAP
Start	1	End	1196
GI	6907089	Score	1647
Exons	1..1196		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	50647	Seq. ID	OJ990930_09.0421.C7
Gene No.	107435	Strand	+
Start	1	End	1199
Name	OJ990930_09.0421.C7.o1.gs	Method	GENSCAN
Start	44	End	1199
GI	none	Score	.97
Exons	44..737, 795..1199		

Seq. No.	50647	Seq. ID	OJ990930_09.0421.C7
Gene No.	107436	Strand	-
Start	1821	End	2230
Name	OJ990930_09.0421.C7.o2.gs	Method	GENSCAN
Start	1821	End	2156
GI	none	Score	1
Exons	1821..2156		

Seq. No.	50647	Seq. ID	OJ990930_09.0421.C7
Gene No.	107436	Strand	-
Start	1821	End	2230
Name	OJ990930_09.0421.C7.o2.np	Method	AAT/NAP
Start	1824	End	2230
GI	7228457	Score	642
Exons	1824..2230		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	50648	Seq. ID	OJ990930_09.0421.C11
Gene No.	107437	Strand	-
Start	1	End	1228
Name	OJ990930_09.0421.C11.o1.np	Method	AAT/NAP
Start	1	End	1228
GI	7228457	Score	1676
Exons	1..76, 199..1032, 1096..1228		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	50648	Seq. ID	OJ990930_09.0421.C11
Gene No.	107437	Strand	-
Start	1	End	1228
Name	OJ990930_09.0421.C11.o1.ts	Method	TBLASTX:Soybean
Start	5	End	375
GI	none	Score	83
Exons	5..235, 232..375, 233..358		

Seq. No.	50648	Seq. ID	OJ990930_09.0421.C11
Gene No.	107437	Strand	-
Start	1	End	1228
Name	OJ990930_09.0421.C11.o2.tw	Method	TBLASTX:Wheat
Start	35	End	454
GI	none	Score	98
Exons	35..241, 60..215, 223..453, 224..454		

Seq. No.	50648	Seq. ID	OJ990930_09.0421.C11
Gene No.	107437	Strand	-

Start	1	End	1228
Name	OJ990930_09.0421.C11.o2.tm	Method	TBLASTX:Maize
Start	128	End	511
GI	none	Score	201
Exons	128..238, 226..510, 227..511		

Seq. No.	50648	Seq. ID	OJ990930_09.0421.C11
Gene No.	107437	Strand	-
Start	1	End	1228
Name	OJ990930_09.0421.C11.o1.gs	Method	GENSCAN
Start	184	End	969
GI	none	Score	.42
Exons	184..969		

Seq. No.	50648	Seq. ID	OJ990930_09.0421.C11
Gene No.	107437	Strand	-
Start	1	End	1228
Name	OJ990930_09.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	538	End	894
GI	none	Score	69
Exons	538..654, 538..894, 548..859		

Seq. No.	50648	Seq. ID	OJ990930_09.0421.C11
Gene No.	107437	Strand	-
Start	1	End	1228
Name	OJ990930_09.0421.C11.o1.tw	Method	TBLASTX:Wheat
Start	562	End	1025
GI	none	Score	229
Exons	562..1023, 568..1023, 569..1024, 582..1025		

Seq. No.	50649	Seq. ID	OJ990930_09.0421.C12
Gene No.	107438	Strand	-
Start	1	End	2048
Name	OJ990930_09.0421.C12.o1.np	Method	AAT/NAP
Start	1	End	941
GI	6721562	Score	1329
Exons	1..941		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi 6815087 dbj BAA90373.1 (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	50649	Seq. ID	OJ990930_09.0421.C12
Gene No.	107438	Strand	-
Start	1	End	2048
Name	OJ990930_09.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	6	End	245
GI	none	Score	105
Exons	6..245, 7..243		

Seq. No.	50649	Seq. ID	OJ990930_09.0421.C12
Gene No.	107438	Strand	-
Start	1	End	2048
Name	OJ990930_09.0421.C12.o1.tw	Method	TBLASTX:Wheat
Start	6	End	284
GI	none	Score	81

Exons 6..152, 7..168, 135..233, 136..216, 240..284

Seq. No.	50649	Seq. ID	OJ990930_09.0421.C12
Gene No.	107438	Strand	-
Start	1	End	2048
Name	OJ990930_09.0421.C12.o1.gs	Method	GENSCAN
Start	98	End	1968
GI	none	Score	.58
Exons	98..1012, 1049..1116, 1691..1799, 1904..1968		

Seq. No.	50649	Seq. ID	OJ990930_09.0421.C12
Gene No.	107438	Strand	-
Start	1	End	2048
Name	OJ990930_09.0421.C12.o2.np	Method	AAT/NAP
Start	1165	End	2048
GI	5042454	Score	184
Exons	1165..1225, 1574..1742, 1975..2048		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	50650	Seq. ID	OJ990930_09.0421.C17
Gene No.	107439	Strand	-
Start	260	End	460
Name	OJ990930_09.0421.C17.o1.gs	Method	GENSCAN
Start	260	End	460
GI	none	Score	.96
Exons	260..460		

Seq. No.	50651	Seq. ID	OJ990930_09.0421.C42
Gene No.	107440	Strand	+
Start	135	End	559
Name	OJ990930_09.0421.C42.o1.gs	Method	GENSCAN
Start	135	End	559
GI	none	Score	.4
Exons	135..286, 333..398, 403..559		

Seq. No.	50652	Seq. ID	OJ990930_09.0421.C43
Gene No.	107441	Strand	+
Start	8	End	698
Name	OJ990930_09.0421.C43.o1.gs	Method	GENSCAN
Start	8	End	698
GI	none	Score	.6
Exons	8..39, 203..331, 560..698		

Seq. No.	50652	Seq. ID	OJ990930_09.0421.C43
Gene No.	107442	Strand	-
Start	1	End	301
Name	OJ990930_09.0421.C43.o1.np	Method	AAT/NAP
Start	1	End	301
GI	7228456	Score	438
Exons	1..301		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	50652	Seq. ID	OJ990930_09.0421.C43
Gene No.	107443	Strand	-
Start	942	End	1017
Name	OJ990930_09.0421.C43.o2.np	Method	AAT/NAP
Start	942	End	1017

GI 7523512 Score 119
 Exons 942..1017
 GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No. 50653 Seq. ID OJ000129_39.0419.C3
 Gene No. 107444 Strand +
 Start 1 End 1095
 Name OJ000129_39.0419.C3.o1.np Method AAT/NAP
 Start 1 End 1095
 GI 7485757 Score 264
 Exons 1..75, 161..408, 916..1095
 GI Descrip. hypothetical protein F19D11.2 - Arabidopsis thaliana
 gi|3510249|gb|AAC33493.1| (AC005310) unknown protein
 [Arabidopsis thaliana]

Seq. No. 50653 Seq. ID OJ000129_39.0419.C3
 Gene No. 107444 Strand +
 Start 1 End 1095
 Name OJ000129_39.0419.C3.o1.ts Method TBLASTX:Soybean
 Start 151 End 387
 GI none Score 222
 Exons 151..387, 162..383

Seq. No. 50653 Seq. ID OJ000129_39.0419.C3
 Gene No. 107444 Strand +
 Start 1 End 1095
 Name OJ000129_39.0419.C3.o1.gs Method GENSCAN
 Start 161 End 1053
 GI none Score .76
 Exons 161..415, 920..1053

Seq. No. 50654 Seq. ID OJ000129_39.0419.C4
 Gene No. 107445 Strand +
 Start 51 End 623
 Name OJ000129_39.0419.C4.o1.gs Method GENSCAN
 Start 51 End 623
 GI none Score .76
 Exons 51..258, 281..305, 400..623

Seq. No. 50655 Seq. ID OJ000129_39.0419.C5
 Gene No. 107446 Strand +
 Start 268 End 532
 Name OJ000129_39.0419.C5.o1.gp Method AAT/GAP
 Start 268 End 532
 GI 3763145 Score 357
 Exons 268..532
 GI Descrip. 416325/gb|U03454|PRS423 2.0e-15 Yeast episomal vector pRS423
 with HIS3 marker, complete sequence

Seq. No. 50656 Seq. ID OJ000129_39.0419.C7
 Gene No. 107447 Strand +
 Start 46 End 181
 Name OJ000129_39.0419.C7.o1.gs Method GENSCAN
 Start 46 End 181
 GI none Score .69
 Exons 46..181

Seq. No.	50657	Seq. ID	OJ000129_39.0419.C8
Gene No.	107448	Strand	+
Start	1	End	617
Name	OJ000129_39.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	617
GI	7106512	Score	453
Exons	1..617		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50657	Seq. ID	OJ000129_39.0419.C8
Gene No.	107449	Strand	-
Start	1863	End	2216
Name	OJ000129_39.0419.C8.o2.gs	Method	GENSCAN
Start	1863	End	2216
GI	none	Score	.86
Exons	1863..2216		

Seq. No.	50658	Seq. ID	OJ000129_39.0419.C14
Gene No.	107450	Strand	+
Start	614	End	680
Name	OJ000129_39.0419.C14.o1.gs	Method	GENSCAN
Start	614	End	680
GI	none	Score	.55
Exons	614..680		

Seq. No.	50659	Seq. ID	OJ000129_39.0419.C18
Gene No.	107451	Strand	-
Start	988	End	1148
Name	OJ000129_39.0419.C18.o2.np	Method	AAT/NAP
Start	988	End	1148
GI	6721561	Score	120
Exons	988..1148		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50660	Seq. ID	OJ000129_39.0419.C20
Gene No.	107452	Strand	+
Start	264	End	883
Name	OJ000129_39.0419.C20.o1.np	Method	AAT/NAP
Start	264	End	883
GI	2392137	Score	59
Exons	264..433, 678..748, 805..883		
GI Descrip.	Calmodulin Mutant With A Two Residue Deletion In The Central Helix		

Seq. No.	50661	Seq. ID	OJ000129_39.0419.C22
Gene No.	107453	Strand	-
Start	738	End	1120
Name	OJ000129_39.0419.C22.o1.gs	Method	GENSCAN
Start	738	End	1120
GI	none	Score	.87
Exons	738..806, 932..1120		

Seq. No.	50661	Seq. ID	OJ000129_39.0419.C22
Gene No.	107454	Strand	-
Start	2214	End	4168
Name	OJ000129_39.0419.C22.o1.np	Method	AAT/NAP
Start	2214	End	4142
GI	7523502	Score	178
Exons	2214..2279, 3601..3735, 4049..4142		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	50661	Seq. ID	OJ000129_39.0419.C22
Gene No.	107454	Strand	-
Start	2214	End	4168
Name	OJ000129_39.0419.C22.o2.gs	Method	GENSCAN
Start	3538	End	4168
GI	none	Score	.87
Exons	3538..3810, 4049..4168		

Seq. No.	50662	Seq. ID	OJ000129_39.0419.C23
Gene No.	107455	Strand	-
Start	1	End	913
Name	OJ000129_39.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	858
GI	5902445	Score	991
Exons	1..858		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	50662	Seq. ID	OJ000129_39.0419.C23
Gene No.	107455	Strand	-
Start	1	End	913
Name	OJ000129_39.0419.C23.o2.tw	Method	TBLASTX:Wheat
Start	11	End	343
GI	none	Score	129
Exons	11..244, 11..343, 15..338		

Seq. No.	50662	Seq. ID	OJ000129_39.0419.C23
Gene No.	107455	Strand	-
Start	1	End	913
Name	OJ000129_39.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	17	End	400
GI	none	Score	105
Exons	17..400, 18..239, 208..366		

Seq. No.	50662	Seq. ID	OJ000129_39.0419.C23
Gene No.	107455	Strand	-
Start	1	End	913
Name	OJ000129_39.0419.C23.o1.gs	Method	GENSCAN
Start	69	End	646
GI	none	Score	.64
Exons	69..646		

Seq. No.	50662	Seq. ID	OJ000129_39.0419.C23
Gene No.	107455	Strand	-
Start	1	End	913
Name	OJ000129_39.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	131	End	367
GI	none	Score	69
Exons	131..367, 132..239		

Seq. No.	50662	Seq. ID	OJ000129_39.0419.C23
Gene No.	107455	Strand	-
Start	1	End	913
Name	OJ000129_39.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	428	End	783
GI	none	Score	77
Exons	428..589, 578..670, 588..713, 588..737, 589..729, 589..783, 596..742		

Seq. No.	50662	Seq. ID	OJ000129_39.0419.C23
Gene No.	107455	Strand	-
Start	1	End	913
Name	OJ000129_39.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	459	End	913
GI	none	Score	117
Exons	459..593, 470..592, 473..616, 595..903, 595..885, 596..913		

Seq. No.	50663	Seq. ID	OJ000129_39.0419.C24
Gene No.	107456	Strand	-
Start	361	End	598
Name	OJ000129_39.0419.C24.o1.gs	Method	GENSCAN
Start	361	End	598
GI	none	Score	1
Exons	361..598		

Seq. No.	50663	Seq. ID	OJ000129_39.0419.C24
Gene No.	107456	Strand	-
Start	361	End	598
Name	OJ000129_39.0419.C24.o1.np	Method	AAT/NAP
Start	361	End	526
GI	5922636	Score	96
Exons	361..526		

GI Descrip.	(AP000492) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016869 dbj BAA85212.1 (AP000570) ESTs C99517(E20319),AU078130(E20319) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
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Seq. No.	50664	Seq. ID	OJ000129_39.0419.C25
Gene No.	107457	Strand	-
Start	50	End	154
Name	OJ000129_39.0419.C25.o1.gs	Method	GENSCAN
Start	50	End	154
GI	none	Score	.67
Exons	50..154		

Seq. No.	50665	Seq. ID	OJ000129_39.0419.C30
Gene No.	107458	Strand	-
Start	213	End	990
Name	OJ000129_39.0419.C30.o1.gs	Method	GENSCAN
Start	213	End	990
GI	none	Score	.59
Exons	213..364, 959..990		

Seq. No.	50666	Seq. ID	OJ000129_39.0419.C40
Gene No.	107459	Strand	+

Start	40	End	909
Name	OJ000129_39.0419.C40.o1.gs	Method	GENSCAN
Start	40	End	909
GI	none	Score	.96
Exons	40..645, 754..909		

Seq. No.	50667	Seq. ID	OJ000129_39.0419.C42
Gene No.	107460	Strand	+
Start	45	End	979
Name	OJ000129_39.0419.C42.o1.gp	Method	AAT/GAP
Start	45	End	970
GI	2428924	Score	600
Exons	45..309, 872..970		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-50 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	50667	Seq. ID	OJ000129_39.0419.C42
Gene No.	107460	Strand	+
Start	45	End	979
Name	OJ000129_39.0419.C42.o1.gs	Method	GENSCAN
Start	378	End	979
GI	none	Score	.62
Exons	378..611, 872..979		

Seq. No.	50667	Seq. ID	OJ000129_39.0419.C42
Gene No.	107461	Strand	-
Start	1	End	1677
Name	OJ000129_39.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	1677
GI	5852180	Score	597
Exons	1..464, 516..633, 1630..1677		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	50668	Seq. ID	OJ000129_39.0419.C44
Gene No.	107462	Strand	+
Start	16	End	2352
Name	OJ000129_39.0419.C44.o1.np	Method	AAT/NAP
Start	16	End	1530
GI	5852179	Score	420
Exons	16..36, 1024..1232, 1306..1530		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	50668	Seq. ID	OJ000129_39.0419.C44
Gene No.	107462	Strand	+
Start	16	End	2352
Name	OJ000129_39.0419.C44.o1.gs	Method	GENSCAN
Start	23	End	2352
GI	none	Score	.97
Exons	23..36, 978..1328, 1357..1514, 2306..2352		

Seq. No.	50669	Seq. ID	OJ000129_39.0419.C45
Gene No.	107463	Strand	-
Start	1022	End	3028
Name	OJ000129_39.0419.C45.o1.np	Method	AAT/NAP
Start	1006	End	3013
GI	7430959	Score	746
Exons	1006..1690, 2103..2194, 2436..2585, 2959..3013		

GI Descrip. hypothetical protein F25G13.100 - Arabidopsis thaliana
gi|5123942|emb|CAB45500.1| (AL079349) putative protein
[Arabidopsis thaliana] gi|7268003|emb|CAB78343.1| (AL161535)
putative protein [Arabidopsis thaliana]

Seq. No.	50669	Seq. ID	OJ000129_39.0419.C45
Gene No.	107463	Strand	-
Start	1022	End	3028
Name	OJ000129_39.0419.C45.o1.gs	Method	GENSCAN
Start	1022	End	3028
GI	none	Score	.9
Exons	1022..1690, 2422..2574, 2948..3028		

Seq. No.	50669	Seq. ID	OJ000129_39.0419.C45
Gene No.	107463	Strand	-
Start	1022	End	3028
Name	OJ000129_39.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	1038	End	3010
GI	none	Score	77
Exons	1038..1160, 1040..1213, 1229..1354, 1230..1337, 1343..1531, 1344..1532, 1493..1687, 1494..1688, 2109..2195, 2452..2580, 2456..2575, 2473..2580, 2948..3010		

Seq. No.	50669	Seq. ID	OJ000129_39.0419.C45
Gene No.	107463	Strand	-
Start	1022	End	3028
Name	OJ000129_39.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	1229	End	2220
GI	none	Score	267
Exons	1229..1354, 1343..1519, 1344..1691, 1556..1693, 2112..2204, 2113..2220		

Seq. No.	50670	Seq. ID	OJ000129_39.0419.C47
Gene No.	107464	Strand	+
Start	245	End	894
Name	OJ000129_39.0419.C47.o1.np	Method	AAT/NAP
Start	245	End	894
GI	7523517	Score	278
Exons	245..543, 690..744, 854..894		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	50670	Seq. ID	OJ000129_39.0419.C47
Gene No.	107465	Strand	-
Start	324	End	560
Name	OJ000129_39.0419.C47.o1.gs	Method	GENSCAN
Start	324	End	560
GI	none	Score	.97
Exons	324..399, 475..560		

Seq. No.	50670	Seq. ID	OJ000129_39.0419.C47
Gene No.	107466	Strand	-
Start	496	End	894
Name	OJ000129_39.0419.C47.o2.np	Method	AAT/NAP
Start	496	End	894
GI	6721512	Score	66
Exons	496..597, 626..718, 870..894		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	50671	Seq. ID	OJ000129_39.0419.C51
Gene No.	107467	Strand	+
Start	181	End	348
Name	OJ000129_39.0419.C51.o1.gs	Method	GENSCAN
Start	181	End	348
GI	none	Score	.47
Exons	181..348		

Seq. No.	50671	Seq. ID	OJ000129_39.0419.C51
Gene No.	107467	Strand	+
Start	181	End	348
Name	OJ000129_39.0419.C51.o1.np	Method	AAT/NAP
Start	196	End	343
GI	7430959	Score	82
Exons	196..343		
GI Descrip.	hypothetical protein F25G13.100 - Arabidopsis thaliana gi 5123942 emb CAB45500.1 (AL079349) putative protein [Arabidopsis thaliana] gi 7268003 emb CAB78343.1 (AL161535) putative protein [Arabidopsis thaliana]		

Seq. No.	50672	Seq. ID	OJ000209_28.0419.C2
Gene No.	107468	Strand	-
Start	594	End	656
Name	OJ000209_28.0419.C2.o1.gs	Method	GENSCAN
Start	594	End	656
GI	none	Score	.89
Exons	594..656		

Seq. No.	50673	Seq. ID	OJ000209_28.0419.C6
Gene No.	107469	Strand	-
Start	219	End	2154
Name	OJ000209_28.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	1	End	346
GI	none	Score	314
Exons	1..345, 2..346		

Seq. No.	50673	Seq. ID	OJ000209_28.0419.C6
Gene No.	107469	Strand	-
Start	219	End	2154
Name	OJ000209_28.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	1	End	456
GI	none	Score	216
Exons	1..456		

Seq. No.	50673	Seq. ID	OJ000209_28.0419.C6
Gene No.	107469	Strand	-
Start	219	End	2154
Name	OJ000209_28.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	139	End	459
GI	none	Score	129
Exons	139..459, 170..442		

Seq. No.	50673	Seq. ID	OJ000209_28.0419.C6
Gene No.	107469	Strand	-
Start	219	End	2154
Name	OJ000209_28.0419.C6.o1.gs	Method	GENSCAN

Start 219
GI none
Exons 219..2154

End 2154
Score .55

Seq. No. 50673
Gene No. 107469
Start 219
Name OJ000209_28.0419.C6.o1.tc
Start 223
GI none
Exons 223..339, 667..723, 739..903, 925..1050, 1069..1137, 1225..1350, 1363..1539

Seq. ID OJ000209_28.0419.C6
Strand -
End 2154
Method TBLASTX:Cress
End 1539
Score 131

Seq. No. 50673
Gene No. 107469
Start 219
Name OJ000209_28.0419.C6.o1.np
Start 241
GI 5669782
Exons 241..2013
GI Descrip. (AF108010) Hv1LRR2 [Hordeum vulgare]

Seq. ID OJ000209_28.0419.C6
Strand -
End 2154
Method AAT/NAP
End 2013
Score 1028

Seq. No. 50673
Gene No. 107469
Start 219
Name OJ000209_28.0419.C6.o1.tm
Start 442
GI none
Exons 442..822, 446..526, 456..740, 460..816

Seq. ID OJ000209_28.0419.C6
Strand -
End 2154
Method TBLASTX:Maize
End 822
Score 80

Seq. No. 50673
Gene No. 107469
Start 219
Name OJ000209_28.0419.C6.o1.ts
Start 568
GI none
Exons 568..729, 602..718, 701..778, 727..906, 743..907, 887..928, 940..1059, 989..1060, 1081..1323, 1168..1308

Seq. ID OJ000209_28.0419.C6
Strand -
End 2154
Method TBLASTX:Soybean
End 1323
Score 50

Seq. No. 50673
Gene No. 107469
Start 219
Name OJ000209_28.0419.C6.o1.tw
Start 755
GI none
Exons 755..1084, 757..1080

Seq. ID OJ000209_28.0419.C6
Strand -
End 2154
Method TBLASTX:Wheat
End 1084
Score 133

Seq. No. 50674
Gene No. 107470
Start 1070
Name OJ000209_28.0419.C7.o1.gs
Start 1070
GI none
Exons 1070..1366

Seq. ID OJ000209_28.0419.C7
Strand +
End 1366
Method GENSCAN
End 1366
Score .8

Seq. No. 50674
Gene No. 107471

Seq. ID OJ000209_28.0419.C7
Strand +

Start	4836	End	5617
Name	OJ000209_28.0419.C7.o1.np	Method	AAT/NAP
Start	4789	End	5617
GI	7434215	Score	518
Exons	4789..5025, 5053..5617		
GI Descrip.	probable pyrophosphate--fructose-6-phosphate 1-phosphotransferase (EC 2.7.1.90) T16I18.50 - Arabidopsis thaliana gi 7270231 emb CAB80001.1 (AL161582) putative pyrophosphate--fructose-6-phosphate 1-phosphotransferase [Arabidopsis thaliana]		

Seq. No.	50674	Seq. ID	OJ000209_28.0419.C7
Gene No.	107471	Strand	+
Start	4836	End	5617
Name	OJ000209_28.0419.C7.o2.gs	Method	GENSCAN
Start	4836	End	5576
GI	none	Score	.73
Exons	4836..5576		

Seq. No.	50674	Seq. ID	OJ000209_28.0419.C7
Gene No.	107471	Strand	+
Start	4836	End	5617
Name	OJ000209_28.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	4911	End	5537
GI	none	Score	56
Exons	4911..4982, 5060..5152, 5067..5189, 5241..5432, 5291..5419, 5475..5504, 5508..5537		

Seq. No.	50674	Seq. ID	OJ000209_28.0419.C7
Gene No.	107471	Strand	+
Start	4836	End	5617
Name	OJ000209_28.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	4911	End	5609
GI	none	Score	47
Exons	4911..4997, 5060..5152, 5067..5183, 5241..5432, 5291..5428, 5475..5609, 5477..5608		

Seq. No.	50674	Seq. ID	OJ000209_28.0419.C7
Gene No.	107471	Strand	+
Start	4836	End	5617
Name	OJ000209_28.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	5060	End	5429
GI	none	Score	127
Exons	5060..5152, 5067..5183, 5241..5429, 5291..5428		

Seq. No.	50675	Seq. ID	OJ000209_28.0419.C10
Gene No.	107472	Strand	+
Start	384	End	1233
Name	OJ000209_28.0419.C10.o1.gs	Method	GENSCAN
Start	384	End	1233
GI	none	Score	.48
Exons	384..476, 660..749, 826..1233		

Seq. No.	50675	Seq. ID	OJ000209_28.0419.C10
Gene No.	107473	Strand	-
Start	336	End	1142
Name	OJ000209_28.0419.C10.o1.np	Method	AAT/NAP

Start	336	End	1142
GI	3695019	Score	304
Exons	336..528, 629..726, 818..933, 1095..1142		
GI Descrip.	(AF055848) subtilisin-like protease [Arabidopsis thaliana]		

Seq. No.	50675	Seq. ID	OJ000209_28.0419.C10
Gene No.	107473	Strand	-
Start	336	End	1142
Name	OJ000209_28.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	362	End	936
GI	none	Score	79
Exons	362..535, 374..535, 612..728, 664..723, 818..904, 820..903, 898..936		

Seq. No.	50675	Seq. ID	OJ000209_28.0419.C10
Gene No.	107473	Strand	-
Start	336	End	1142
Name	OJ000209_28.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	449	End	737
GI	none	Score	75
Exons	449..535, 453..536, 612..737		

Seq. No.	50676	Seq. ID	OJ000209_28.0419.C12
Gene No.	107474	Strand	+
Start	138	End	376
Name	OJ000209_28.0419.C12.o1.gs	Method	GENSCAN
Start	138	End	376
GI	none	Score	.51
Exons	138..273, 324..376		

Seq. No.	50676	Seq. ID	OJ000209_28.0419.C12
Gene No.	107475	Strand	+
Start	296	End	438
Name	OJ000209_28.0419.C12.o1.np	Method	AAT/NAP
Start	296	End	438
GI	4218991	Score	78
Exons	296..438		
GI Descrip.	(AF098632) subtilisin-like protease [Arabidopsis thaliana]		

Seq. No.	50677	Seq. ID	OJ000209_28.0419.C13
Gene No.	107476	Strand	+
Start	68	End	4440
Name	OJ000209_28.0419.C13.o1.np	Method	AAT/NAP
Start	68	End	4401
GI	3695019	Score	1471
Exons	68..203, 1843..2378, 2452..2549, 2642..2887, 3231..3345, 3460..3673, 3827..4401		
GI Descrip.	(AF055848) subtilisin-like protease [Arabidopsis thaliana]		

Seq. No.	50677	Seq. ID	OJ000209_28.0419.C13
Gene No.	107476	Strand	+
Start	68	End	4440
Name	OJ000209_28.0419.C13.o1.gs	Method	GENSCAN
Start	1770	End	4440
GI	none	Score	.94
Exons	1770..1816, 1847..2378, 2452..2549, 2642..2887, 3231..3345, 3460..3673, 3827..4440		

Seq. No.	50677	Seq. ID	OJ000209_28.0419.C13
Gene No.	107477	Strand	-
Start	3804	End	8187
Name	OJ000209_28.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	1838	End	2371
GI	none	Score	35
Exons	1838..1882, 1844..1879, 1845..1967, 1917..2066, 1922..2065, 1993..2067, 2133..2369, 2136..2198, 2174..2371		

Seq. No.	50677	Seq. ID	OJ000209_28.0419.C13
Gene No.	107477	Strand	-
Start	3804	End	8187
Name	OJ000209_28.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	1845	End	4107
GI	none	Score	71
Exons	1845..1967, 1884..2066, 1922..2065, 2133..2369, 2189..2371, 2658..2882, 3232..3363, 3261..3344, 3459..3671, 3460..3672, 3880..4011, 3882..4010, 4081..4107		

Seq. No.	50677	Seq. ID	OJ000209_28.0419.C13
Gene No.	107477	Strand	-
Start	3804	End	8187
Name	OJ000209_28.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	1917	End	2375
GI	none	Score	240
Exons	1917..2171, 1925..2065, 2171..2335, 2172..2375		

Seq. No.	50677	Seq. ID	OJ000209_28.0419.C13
Gene No.	107477	Strand	-
Start	3804	End	8187
Name	OJ000209_28.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	1995	End	2378
GI	none	Score	90
Exons	1995..2087, 2006..2065, 2133..2165, 2148..2378, 2189..2362, 2301..2369		

Seq. No.	50677	Seq. ID	OJ000209_28.0419.C13
Gene No.	107477	Strand	-
Start	3804	End	8187
Name	OJ000209_28.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	2658	End	4014
GI	none	Score	101
Exons	2658..2762, 2790..2882, 3246..3329, 3247..3363, 3455..3526, 3456..3671, 3459..3527, 3460..3672, 3873..3986, 3880..4014		

Seq. No.	50677	Seq. ID	OJ000209_28.0419.C13
Gene No.	107477	Strand	-
Start	3804	End	8187
Name	OJ000209_28.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	2658	End	4113
GI	none	Score	64
Exons	2658..2807, 2691..2843, 3244..3363, 3453..3671, 3460..3672, 3817..4020, 3825..3998, 4048..4113		

Seq. No.	50677	Seq. ID	OJ000209_28.0419.C13
Gene No.	107477	Strand	-

Start	3804	End	8187
Name	OJ000209_28.0419.C13.o2.np	Method	AAT/NAP
Start	3804	End	8101
GI	7489086	Score	71
Exons	3804..3923, 4162..4298, 6189..6302, 6357..6642, 8032..8101		
GI Descrip.	extensin-like protein PRP5 - Persian tobacco gi 2653671 gb AAC15893.1 (U88587) 120 kDa style glycoprotein [Nicotiana glauca]		

Seq. No.	50677	Seq. ID	OJ000209_28.0419.C13
Gene No.	107477	Strand	-
Start	3804	End	8187
Name	OJ000209_28.0419.C13.o2.gs	Method	GENSCAN
Start	5402	End	5822
GI	none	Score	.86
Exons	5402..5568, 5732..5822		

Seq. No.	50677	Seq. ID	OJ000209_28.0419.C13
Gene No.	107477	Strand	-
Start	3804	End	8187
Name	OJ000209_28.0419.C13.o3.gs	Method	GENSCAN
Start	6182	End	8187
GI	none	Score	.46
Exons	6182..6379, 6492..6657, 7924..8021, 8059..8187		

Seq. No.	50678	Seq. ID	OJ000209_28.0419.C14
Gene No.	107478	Strand	+
Start	236	End	1375
Name	OJ000209_28.0419.C14.o1.gs	Method	GENSCAN
Start	236	End	1375
GI	none	Score	.56
Exons	236..432, 620..671, 882..1375		

Seq. No.	50678	Seq. ID	OJ000209_28.0419.C14
Gene No.	107478	Strand	+
Start	236	End	1375
Name	OJ000209_28.0419.C14.o1.gp	Method	AAT/GAP
Start	548	End	1125
GI	none	Score	662
Exons	548..671, 882..1125		

Seq. No.	50678	Seq. ID	OJ000209_28.0419.C14
Gene No.	107479	Strand	-
Start	1157	End	1739
Name	OJ000209_28.0419.C14.o2.gp	Method	AAT/GAP
Start	1157	End	1739
GI	55293_1.R1084	Score	1125
Exons	1157..1739		
GI Descrip.	'4559388/gb AAD23048.1 AC006526_13 7.0e-54 (AC006526) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	50679	Seq. ID	OJ000209_28.0419.C15
Gene No.	107480	Strand	+
Start	145	End	779
Name	OJ000209_28.0419.C15.o1.gs	Method	GENSCAN
Start	145	End	779
GI	none	Score	.81

Exons 145..779

Seq. No.	50680	Seq. ID	OJ000209_28.0419.C16
Gene No.	107481	Strand	-
Start	1	End	275
Name	OJ000209_28.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	275
GI	3953461	Score	214
Exons	1..275		
GI Descrip.	(AC002328) F20N2.6 [Arabidopsis thaliana]		

Seq. No.	50680	Seq. ID	OJ000209_28.0419.C16
Gene No.	107481	Strand	-
Start	1	End	275
Name	OJ000209_28.0419.C16.o1.gs	Method	GENSCAN
Start	41	End	256
GI	none	Score	.94
Exons	41..256		

Seq. No.	50681	Seq. ID	OJ000209_28.0419.C19
Gene No.	107482	Strand	+
Start	384	End	3849
Name	OJ000209_28.0419.C19.o1.gs	Method	GENSCAN
Start	384	End	3849
GI	none	Score	1
Exons	384..1004, 1097..3251, 3371..3849		

Seq. No.	50681	Seq. ID	OJ000209_28.0419.C19
Gene No.	107482	Strand	+
Start	384	End	3849
Name	OJ000209_28.0419.C19.o1.np	Method	AAT/NAP
Start	423	End	3843
GI	7434427	Score	2636
Exons	423..1709, 1935..3256, 3338..3843		

GI Descrip. protein kinase homolog M3E9.30 - Arabidopsis thaliana
gi|2982452|emb|CAA18216.1| (AL022223) receptor protein
kinase-like protein [Arabidopsis thaliana]
gi|7269506|emb|CAB79509.1| (AL161565) receptor protein
kinase-like protein [Arabidopsis thaliana]

Seq. No.	50681	Seq. ID	OJ000209_28.0419.C19
Gene No.	107482	Strand	+
Start	384	End	3849
Name	OJ000209_28.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	591	End	3465
GI	none	Score	40
Exons	591..617, 717..1025, 720..1001, 720..995, 720..1025, 726..830, 780..830, 891..1028, 891..1028, 891..1028, 1023..1091, 1023..1091, 1032..1091, 1061..1426, 1076..1621, 1091..1585, 1103..1837, 1103..1408, 1142..1963, 1177..1419, 1180..1335, 1214..1981, 1217..1549, 1246..1479, 1252..1479, 1286..2014, 1318..1488, 1319..1861, 1324..1620, 1370..1912, 1529..1726, 1535..1993, 1597..1758, 1616..1699, 1645..1953, 1655..1993, 1718..1993, 1730..2023, 1790..2011, 1853..1993, 1885..1986, 1985..2224, 1991..2221, 2000..2221, 2003..2221, 2003..2233, 2012..2221, 2027..2221, 2072..2224, 2080..2253, 2101..2202, 2225..2458, 2225..2332, 2225..2332, 2225..2338, 2228..2338,		

2228..2344, 2231..2344, 2231..2338, 2231..2347, 2339..2410,
2345..2413, 2372..2461, 2708..2935, 3017..3184, 3370..3465

Seq. No.	50681	Seq. ID	OJ000209_28.0419.C19
Gene No.	107482	Strand	+
Start	384	End	3849
Name	OJ000209_28.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	717	End	3711
GI	none	Score	147
Exons	717..1028, 717..842, 720..1025, 720..1025, 747..839, 807..1010, 825..944, 891..1025, 891..1028, 897..1091, 927..1028, 1023..1091, 1100..1747, 1106..1408, 1108..1263, 1109..1768, 1115..1234, 1163..1549, 1178..1426, 1180..1485, 1180..1407, 1217..1624, 1235..1939, 1252..1479, 1259..1366, 1289..1699, 1307..2014, 1318..1500, 1361..1768, 1475..1591, 1505..1912, 1540..1779, 1583..2020, 1600..1695, 1600..1695, 1601..1987, 1649..1993, 1763..1876, 1835..1954, 2000..2122, 2000..2212, 2003..2206, 2003..2206, 2003..2224, 2012..2227, 2027..2224, 2075..2221, 2089..2319, 2098..2208, 2117..2221, 2225..2332, 2228..2332, 2228..2338, 2231..2344, 2345..2467, 2651..2800, 2722..2796, 2837..2935, 3017..3184, 3221..3250, 3369..3500, 3370..3507, 3604..3711		

Seq. No.	50681	Seq. ID	OJ000209_28.0419.C19
Gene No.	107482	Strand	+
Start	384	End	3849
Name	OJ000209_28.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	717	End	2601
GI	none	Score	96
Exons	717..833, 741..833, 1175..1267, 1213..1338, 1223..1339, 1583..1687, 1601..1687, 1730..1837, 1802..1909, 2198..2524, 2198..2587, 2203..2601		

Seq. No.	50681	Seq. ID	OJ000209_28.0419.C19
Gene No.	107482	Strand	+
Start	384	End	3849
Name	OJ000209_28.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	2650	End	3052
GI	none	Score	453
Exons	2650..2928, 2651..2935, 3017..3052		

Seq. No.	50681	Seq. ID	OJ000209_28.0419.C19
Gene No.	107482	Strand	+
Start	384	End	3849
Name	OJ000209_28.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	2837	End	3190
GI	none	Score	63
Exons	2837..2935, 3017..3190		

Seq. No.	50681	Seq. ID	OJ000209_28.0419.C19
Gene No.	107482	Strand	+
Start	384	End	3849
Name	OJ000209_28.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	3053	End	3726
GI	none	Score	138
Exons	3053..3184, 3221..3250, 3369..3479, 3370..3462, 3446..3481, 3597..3725, 3598..3726		

Seq. No.	50682	Seq. ID	OJ000209_28.0419.C20
Gene No.	107483	Strand	+
Start	52	End	1534
Name	OJ000209_28.0419.C20.o1.gs	Method	GENSCAN
Start	52	End	435
GI	none	Score	.99
Exons	52..435		

Seq. No.	50682	Seq. ID	OJ000209_28.0419.C20
Gene No.	107483	Strand	+
Start	52	End	1534
Name	OJ000209_28.0419.C20.o1.np	Method	AAT/NAP
Start	218	End	1534
GI	3953461	Score	108
Exons	218..403, 1493..1534		
GI Descrip.	(AC002328) F20N2.6 [Arabidopsis thaliana]		

Seq. No.	50683	Seq. ID	OJ000209_28.0419.C21
Gene No.	107484	Strand	-
Start	1	End	1465
Name	OJ000209_28.0419.C21.o1.gp	Method	AAT/GAP
Start	1	End	275
GI	2443168	Score	318
Exons	1..43, 146..275		
GI Descrip.	4559388/gb AAD23048.1 AC006526_13 7.0e-54 (AC006526) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50683	Seq. ID	OJ000209_28.0419.C21
Gene No.	107484	Strand	-
Start	1	End	1465
Name	OJ000209_28.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	1	End	794
GI	none	Score	50
Exons	1..36, 2..37, 144..257, 146..451, 146..493, 285..521, 618..794, 620..793		

Seq. No.	50683	Seq. ID	OJ000209_28.0419.C21..
Gene No.	107484	Strand	-
Start	1	End	1465
Name	OJ000209_28.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	1465
GI	6850880	Score	394
Exons	1..43, 146..503, 618..815, 1408..1465		
GI Descrip.	(AL137898) putative protein [Arabidopsis thaliana]		

Seq. No.	50683	Seq. ID	OJ000209_28.0419.C21
Gene No.	107484	Strand	-
Start	1	End	1465
Name	OJ000209_28.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	2	End	506
GI	none	Score	39
Exons	2..40, 3..29, 146..505, 156..374, 294..506, 435..485		

Seq. No.	50683	Seq. ID	OJ000209_28.0419.C21
Gene No.	107484	Strand	-
Start	1	End	1465

Name	OJ000209_28.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	2	End	784
GI	none	Score	72
Exons	2..46, 91..258, 144..260, 146..505, 626..784		
Seq. No.	50683	Seq. ID	OJ000209_28.0419.C21
Gene No.	107484	Strand	-
Start	1	End	1465
Name	OJ000209_28.0419.C21.o1.gs	Method	GENSCAN
Start	146	End	1290
GI	none	Score	.86
Exons	146..503, 618..953, 1271..1290		
Seq. No.	50684	Seq. ID	OJ000209_28.0419.C22
Gene No.	107485	Strand	-
Start	64	End	371
Name	OJ000209_28.0419.C22.o1.gs	Method	GENSCAN
Start	64	End	371
GI	none	Score	.98
Exons	64..138, 242..371		
Seq. No.	50684	Seq. ID	OJ000209_28.0419.C22
Gene No.	107486	Strand	-
Start	3253	End	3670
Name	OJ000209_28.0419.C22.o1.np	Method	AAT/NAP
Start	1907	End	3326
GI	7340868	Score	185
Exons	1907..1928, 3083..3326		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		
Seq. No.	50684	Seq. ID	OJ000209_28.0419.C22
Gene No.	107486	Strand	-
Start	3253	End	3670
Name	OJ000209_28.0419.C22.o2.gs	Method	GENSCAN
Start	3253	End	3670
GI	none	Score	.66
Exons	3253..3395, 3626..3670		
Seq. No.	50685	Seq. ID	OJ000209_28.0419.C23
Gene No.	107487	Strand	+
Start	998	End	1161
Name	OJ000209_28.0419.C23.o1.gs	Method	GENSCAN
Start	998	End	1161
GI	none	Score	.43
Exons	998..1161		
Seq. No.	50685	Seq. ID	OJ000209_28.0419.C23
Gene No.	107488	Strand	-
Start	444	End	2584
Name	OJ000209_28.0419.C23.o2.np	Method	AAT/NAP
Start	444	End	2267
GI	2760331	Score	127
Exons	444..487, 1392..1624, 1869..2088, 2174..2267		
GI Descrip.	(AC002130) F1N21.16 [Arabidopsis thaliana]		
Seq. No.	50685	Seq. ID	OJ000209_28.0419.C23
Gene No.	107488	Strand	-

Start	444	End	2584
Name	OJ000209_28.0419.C23.o1.np	Method	AAT/NAP
Start	1439	End	2584
GI	7486726	Score	250
Exons	1439..2088, 2174..2264, 2556..2584		
GI Descrip.	hypothetical protein F9D12.2 - Arabidopsis thaliana gi 3319345 gb AAC26234.1 (AF077407) contains similarity to maize transposon MuDR (GB:M76978) [Arabidopsis thaliana]		

Seq. No.	50686	Seq. ID	OJ000209_28.0419.C24
Gene No.	107489	Strand	-
Start	164	End	275
Name	OJ000209_28.0419.C24.o1.gs	Method	GENSCAN
Start	164	End	275
GI	none	Score	.89
Exons	164..275		

Seq. No.	50687	Seq. ID	OJ000209_28.0419.C27
Gene No.	107490	Strand	-
Start	265	End	453
Name	OJ000209_28.0419.C27.o1.np	Method	AAT/NAP
Start	265	End	453
GI	3953461	Score	142
Exons	265..453		
GI Descrip.	(AC002328) F20N2.6 [Arabidopsis thaliana]		

Seq. No.	50688	Seq. ID	OJ000209_28.0419.C28
Gene No.	107491	Strand	-
Start	1	End	1526
Name	OJ000209_28.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	434
GI	3953460	Score	120
Exons	1..40, 257..434		
GI Descrip.	(AC002328) F20N2.5 [Arabidopsis thaliana]		

Seq. No.	50688	Seq. ID	OJ000209_28.0419.C28
Gene No.	107491	Strand	-
Start	1	End	1526
Name	OJ000209_28.0419.C28.o2.np	Method	AAT/NAP
Start	1	End	930
GI	495518	Score	101
Exons	1..34, 385..930		
GI Descrip.	(U09738) circumsporozoite protein [Plasmodium vivax-like sp.]		

Seq. No.	50688	Seq. ID	OJ000209_28.0419.C28
Gene No.	107491	Strand	-
Start	1	End	1526
Name	OJ000209_28.0419.C28.o1.gs	Method	GENSCAN
Start	213	End	1526
GI	none	Score	.71
Exons	213..994, 1333..1374, 1479..1526		

Seq. No.	50689	Seq. ID	OJ000209_28.0419.C29
Gene No.	107492	Strand	-
Start	369	End	875
Name	OJ000209_28.0419.C29.o1.gs	Method	GENSCAN
Start	369	End	875

GI	none	Score	.51
Exons	369..449, 741..785, 852..875		

Seq. No.	50690	Seq. ID	OJ000209_28.0419.C31
Gene No.	107493	Strand	+
Start	122	End	208
Name	OJ000209_28.0419.C31.o1.gs	Method	GENSCAN
Start	122	End	208
GI	none	Score	.41
Exons	122..208		

Seq. No.	50691	Seq. ID	OJ000209_28.0419.C32
Gene No.	107494	Strand	+
Start	1	End	1076
Name	OJ000209_28.0419.C32.o1.gp	Method	AAT/GAP
Start	1	End	82
GI	2443168	Score	150
Exons	1..82		
GI Descrip.	4559388/gb AAD23048.1 AC006526_13 7.0e-54 (AC006526) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50691	Seq. ID	OJ000209_28.0419.C32
Gene No.	107494	Strand	+
Start	1	End	1076
Name	OJ000209_28.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	1	End	990
GI	none	Score	465
Exons	1..321, 2..328, 2..322, 792..983, 793..990, 880..984		

Seq. No.	50691	Seq. ID	OJ000209_28.0419.C32
Gene No.	107494	Strand	+
Start	1	End	1076
Name	OJ000209_28.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	1	End	1076
GI	none	Score	492
Exons	1..321, 2..328, 8..322, 21..323, 792..1076, 793..1071		

Seq. No.	50691	Seq. ID	OJ000209_28.0419.C32
Gene No.	107494	Strand	+
Start	1	End	1076
Name	OJ000209_28.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	1	End	280
GI	none	Score	378
Exons	1..243, 2..280, 12..248		

Seq. No.	50691	Seq. ID	OJ000209_28.0419.C32
Gene No.	107494	Strand	+
Start	1	End	1076
Name	OJ000209_28.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	1065
GI	6850880	Score	789
Exons	1..328, 793..1065		
GI Descrip.	(AL137898) putative protein [Arabidopsis thaliana]		

Seq. No.	50691	Seq. ID	OJ000209_28.0419.C32
Gene No.	107494	Strand	+
Start	1	End	1076

Name OJ000209_28.0419.C32.o1.tw
 Start 2
 GI none
 Exons 2..322, 14..322, 25..354

Method TBLASTX:Wheat
 End 354
 Score 394

Seq. No. 50691
 Gene No. 107494
 Start 1
 Name OJ000209_28.0419.C32.o1.gs
 Start 53
 GI none
 Exons 53..328, 889..1068

Seq. ID OJ000209_28.0419.C32
 Strand +
 End 1076
 Method GENSCAN
 End 1068
 Score .5

Seq. No. 50691
 Gene No. 107494
 Start 1
 Name OJ000209_28.0419.C32.o2.tc
 Start 281
 GI none
 Exons 281..328, 792..1073, 793..1056

Seq. ID OJ000209_28.0419.C32
 Strand +
 End 1076
 Method TBLASTX:Cress
 End 1073
 Score 65

Seq. No. 50691
 Gene No. 107494
 Start 1
 Name OJ000209_28.0419.C32.o2.tw
 Start 835
 GI none
 Exons 835..1065, 837..1025, 845..1030

Seq. ID OJ000209_28.0419.C32
 Strand +
 End 1076
 Method TBLASTX:Wheat
 End 1065
 Score 278

Seq. No. 50692
 Gene No. 107495
 Start 193
 Name OJ000209_28.0419.C33.o1.gs
 Start 193
 GI none
 Exons 193..627

Seq. ID OJ000209_28.0419.C33
 Strand +
 End 627
 Method GENSCAN
 End 627
 Score .73

Seq. No. 50693
 Gene No. 107496
 Start 1
 Name OJ000209_28.0419.C34.o1.gp
 Start 1
 GI none
 Exons 1..216

Seq. ID OJ000209_28.0419.C34
 Strand +
 End 216
 Method AAT/GAP
 End 216
 Score 383

Seq. No. 50693
 Gene No. 107497
 Start 1675
 Name OJ000209_28.0419.C34.o1.gs
 Start 1675
 GI none
 Exons 1675..2091

Seq. ID OJ000209_28.0419.C34
 Strand -
 End 2091
 Method GENSCAN
 End 2091
 Score .55

Seq. No. 50694
 Gene No. 107498
 Start 160
 Name OJ000209_28.0419.C35.o1.np

Seq. ID OJ000209_28.0419.C35
 Strand +
 End 770
 Method AAT/NAP

Start	160	End	767
GI	5257260	Score	720
Exons	160..767		
GI Descrip.	(AP000364) Similar to sequence of BAC F7G19 from Arabidopsis thaliana. (AC000106) [Oryza sativa]		

Seq. No.	50694	Seq. ID	OJ000209_28.0419.C35
Gene No.	107498	Strand	+
Start	160	End	770
Name	OJ000209_28.0419.C35.o1.gs	Method	GENSCAN
Start	177	End	770
GI	none	Score	.67
Exons	177..770		

Seq. No.	50694	Seq. ID	OJ000209_28.0419.C35
Gene No.	107499	Strand	+
Start	685	End	1092
Name	OJ000209_28.0419.C35.o2.gp	Method	AAT/GAP
Start	685	End	1092
GI	18496 1.R1084	Score	729
Exons	685..1092		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 7.0e-09 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	50694	Seq. ID	OJ000209_28.0419.C35
Gene No.	107500	Strand	+
Start	1625	End	1956
Name	OJ000209_28.0419.C35.o3.gp	Method	AAT/GAP
Start	1625	End	1956
GI	2312674	Score	655
Exons	1625..1956		

Seq. No.	50694	Seq. ID	OJ000209_28.0419.C35
Gene No.	107501	Strand	+
Start	2388	End	2493
Name	OJ000209_28.0419.C35.o2.np	Method	AAT/NAP
Start	2388	End	2493
GI	5777617	Score	54
Exons	2388..2493		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	50694	Seq. ID	OJ000209_28.0419.C35
Gene No.	107502	Strand	-
Start	1	End	69
Name	OJ000209_28.0419.C35.o1.gp	Method	AAT/GAP
Start	1	End	69
GI	uC-osf1M202097d10b1	Score	95
Exons	1..69		
GI Descrip.	'4062935/dbj AB003495.1 AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	50694	Seq. ID	OJ000209_28.0419.C35
Gene No.	107503	Strand	-
Start	2585	End	2869
Name	OJ000209_28.0419.C35.o1.tc	Method	TBLASTX:Cress
Start	359	End	644
GI	none	Score	416

Exons 359..643, 360..644

Seq. No.	50694	Seq. ID	OJ000209_28.0419.C35
Gene No.	107503	Strand	-
Start	2585	End	2869
Name	OJ000209_28.0419.C35.o1.ts	Method	TBLASTX:Soybean
Start	362	End	644
GI	none	Score	413
Exons	362..643, 363..644		

Seq. No.	50694	Seq. ID	OJ000209_28.0419.C35
Gene No.	107503	Strand	-
Start	2585	End	2869
Name	OJ000209_28.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	366	End	647
GI	none	Score	358
Exons	366..644, 401..643, 522..647		

Seq. No.	50694	Seq. ID	OJ000209_28.0419.C35
Gene No.	107503	Strand	-
Start	2585	End	2869
Name	OJ000209_28.0419.C35.o2.gs	Method	GENSCAN
Start	2585	End	2869
GI	none	Score	.56
Exons	2585..2869		

Seq. No.	50695	Seq. ID	OJ000209_28.0419.C36
Gene No.	107504	Strand	+
Start	714	End	2023
Name	OJ000209_28.0419.C36.o1.gp	Method	AAT/GAP
Start	714	End	2023
GI	4467_12.R1084	Score	976
Exons	714..809, 950..1082, 1682..2023		
GI Descrip.	'4559388/gb AAD23048.1 AC006526_13 7.0e-54 (AC006526) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	50695	Seq. ID	OJ000209_28.0419.C36
Gene No.	107504	Strand	+
Start	714	End	2023
Name	OJ000209_28.0419.C36.o1.gs	Method	GENSCAN
Start	760	End	2010
GI	none	Score	.5
Exons	760..809, 950..1082, 1664..2010		

Seq. No.	50695	Seq. ID	OJ000209_28.0419.C36
Gene No.	107504	Strand	+
Start	714	End	2023
Name	OJ000209_28.0419.C36.o1.np	Method	AAT/NAP
Start	768	End	2023
GI	4091010	Score	810
Exons	768..809, 950..1082, 1682..2023		
GI Descrip.	(AF042275) anther-specific protein [Oryza sativa]		

Seq. No.	50696	Seq. ID	OJ000209_28.0419.C38
Gene No.	107505	Strand	+
Start	1	End	2837
Name	OJ000209_28.0419.C38.o1.np	Method	AAT/NAP

Start	1	End	2003
GI	5257268	Score	1141
Exons	1..177, 265..364, 472..738, 877..954, 1035..1136, 1219..1268, 1384..1480, 1911..2003		
GI Descrip.	(AP000364) Similar to putative SEC14 cytosolic factor. (Q10137) [Oryza sativa]		

Seq. No.	50696	Seq. ID	OJ000209_28.0419.C38
Gene No.	107505	Strand	+
Start	1	End	2837
Name	OJ000209_28.0419.C38.o2.np	Method	AAT/NAP
Start	1	End	2837
GI	3953470	Score	810
Exons	1..177, 265..364, 472..738, 877..954, 1035..1136, 1219..1268, 1384..1480, 1633..1708, 2150..2837		
GI Descrip.	(AC002328) F20N2.15 [Arabidopsis thaliana]		

Seq. No.	50696	Seq. ID	OJ000209_28.0419.C38
Gene No.	107505	Strand	+
Start	1	End	2837
Name	OJ000209_28.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	53	End	2808
GI	none	Score	136
Exons	53..208, 154..210, 259..357, 263..364, 512..739, 513..740, 520..759, 534..758, 876..953, 877..960, 1032..1139, 1058..1138, 1215..1271, 1219..1263, 1381..1431, 1382..1432, 1424..1492, 1426..1491, 1848..1952, 2629..2808		

Seq. No.	50696	Seq. ID	OJ000209_28.0419.C38
Gene No.	107505	Strand	+
Start	1	End	2837
Name	OJ000209_28.0419.C38.o2.tm	Method	TBLASTX:Maize
Start	56	End	366
GI	none	Score	142
Exons	56..196, 148..207, 259..366, 263..364		

Seq. No.	50696	Seq. ID	OJ000209_28.0419.C38
Gene No.	107505	Strand	+
Start	1	End	2837
Name	OJ000209_28.0419.C38.o1.gs	Method	GENSCAN
Start	59	End	2808
GI	none	Score	.9
Exons	59..177, 265..364, 472..738, 877..954, 1035..1136, 1839..1952, 2086..2257, 2456..2808		

Seq. No.	50696	Seq. ID	OJ000209_28.0419.C38
Gene No.	107505	Strand	+
Start	1	End	2837
Name	OJ000209_28.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	505	End	713
GI	none	Score	267
Exons	505..711, 507..713		

Seq. No.	50696	Seq. ID	OJ000209_28.0419.C38
Gene No.	107505	Strand	+
Start	1	End	2837
Name	OJ000209_28.0419.C38.o1.tw	Method	TBLASTX:Wheat

Start	505	End	1268
GI	none	Score	302
Exons	505..738, 507..737, 876..932, 876..953, 877..960, 1020..1136, 1021..1137, 1032..1139, 1213..1263, 1215..1268, 1219..1266		

Seq. No.	50696	Seq. ID	OJ000209_28.0419.C38
Gene No.	107505	Strand	+
Start	1	End	2837
Name	OJ000209_28.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	506	End	1465
GI	none	Score	330
Exons	506..649, 507..737, 508..738, 695..739, 876..953, 877..960, 1026..1136, 1032..1139, 1046..1138, 1216..1263, 1218..1271, 1219..1263, 1351..1431, 1382..1432, 1426..1464, 1427..1465		

Seq. No.	50696	Seq. ID	OJ000209_28.0419.C38
Gene No.	107505	Strand	+
Start	1	End	2837
Name	OJ000209_28.0419.C38.o2.tc	Method	TBLASTX:Cress
Start	876	End	1483
GI	none	Score	85
Exons	876..953, 877..960, 1020..1136, 1032..1139, 1061..1138, 1219..1263, 1382..1432, 1445..1483		

Seq. No.	50696	Seq. ID	OJ000209_28.0419.C38
Gene No.	107505	Strand	+
Start	1	End	2837
Name	OJ000209_28.0419.C38.o3.tm	Method	TBLASTX:Maize
Start	1654	End	2274
GI	none	Score	95
Exons	1654..1734, 1660..1734, 1671..1736, 1704..1742, 1834..1929, 1836..1955, 1836..1952, 1838..1972, 2086..2127, 2197..2274		

Seq. No.	50697	Seq. ID	OJ000209_28.0419.C39
Gene No.	107506	Strand	+
Start	943	End	1377
Name	OJ000209_28.0419.C39.o1.np	Method	AAT/NAP
Start	943	End	1377
GI	131192	Score	549
Exons	943..1377		
GI Descrip.	PHOTOSYSTEM I REACTION CENTRE SUBUNIT V PRECURSOR (PHOTOSYSTEM I 9 KD PROTEIN) (PSI-G) gi 100606 pir S20937 photosystem I chain V precursor - barley gi 19091 emb CAA42727.1 (X60158) photosystem I polypeptide PSI-G precursor [Hordeum vulgare]		

Seq. No.	50697	Seq. ID	OJ000209_28.0419.C39
Gene No.	107506	Strand	+
Start	943	End	1377
Name	OJ000209_28.0419.C39.o1.gs	Method	GENSCAN
Start	952	End	1377
GI	none	Score	1
Exons	952..1377		

Seq. No.	50697	Seq. ID	OJ000209_28.0419.C39
Gene No.	107507	Strand	-
Start	876	End	1672
Name	OJ000209_28.0419.C39.o1.gp	Method	AAT/GAP

Start	876	End	1672
GI	2669_3.R1084	Score	1545
Exons	876..1672		
GI Descrip.	'131192/sp Q00327 PSAG_HORVU 1.0e-51 PHOTOSYSTEM I REACTION CENTRE SUBUNIT V PRECURSOR (PHOTOSYSTEM I 9 KD PROTEIN) (PSI-G) >gi_100606_pir_S20937 photosystem I chain V precursor - barley >gi_19091_emb_CAA42727_ (X60158) photosystem I polypeptide PSI-G precursor [Hordeum vulgare]'		

Seq. No.	50697	Seq. ID	OJ000209_28.0419.C39
Gene No.	107508	Strand	-
Start	1990	End	2503
Name	OJ000209_28.0419.C39.o1.tw	Method	TBLASTX:Wheat
Start	758	End	1374
GI	none	Score	271
Exons	758..799, 815..868, 1207..1374, 1209..1373		

Seq. No.	50697	Seq. ID	OJ000209_28.0419.C39
Gene No.	107508	Strand	-
Start	1990	End	2503
Name	OJ000209_28.0419.C39.o1.tc	Method	TBLASTX:Cress
Start	877	End	1388
GI	none	Score	40
Exons	877..1011, 1081..1182, 1101..1181, 1183..1374, 1185..1388		

Seq. No.	50697	Seq. ID	OJ000209_28.0419.C39
Gene No.	107508	Strand	-
Start	1990	End	2503
Name	OJ000209_28.0419.C39.o1.ts	Method	TBLASTX:Soybean
Start	948	End	1359
GI	none	Score	87
Exons	948..1019, 949..1014, 1081..1359, 1101..1358		

Seq. No.	50697	Seq. ID	OJ000209_28.0419.C39
Gene No.	107508	Strand	-
Start	1990	End	2503
Name	OJ000209_28.0419.C39.o2.tm	Method	TBLASTX:Maize
Start	948	End	1504
GI	none	Score	87
Exons	948..1019, 949..1014, 1081..1380, 1101..1376, 1466..1501, 1475..1504		

Seq. No.	50697	Seq. ID	OJ000209_28.0419.C39
Gene No.	107508	Strand	-
Start	1990	End	2503
Name	OJ000209_28.0419.C39.o1.tm	Method	TBLASTX:Maize
Start	1856	End	2503
GI	none	Score	77
Exons	1856..1966, 1857..1967, 1975..2130, 1975..2502, 1979..2152, 2067..2459, 2243..2503		

Seq. No.	50697	Seq. ID	OJ000209_28.0419.C39
Gene No.	107508	Strand	-
Start	1990	End	2503
Name	OJ000209_28.0419.C39.o2.gs	Method	GENSCAN
Start	1990	End	2499
GI	none	Score	.51

Exons 1990..2499

Seq. No.	50697	Seq. ID	OJ000209_28.0419.C39
Gene No.	107508	Strand	-
Start	1990	End	2503
Name	OJ000209_28.0419.C39.o2.gp	Method	AAT/GAP
Start	2097	End	2503
GI	none	Score	775
Exons	2097..2503		

Seq. No.	50698	Seq. ID	OJ000209_28.0419.C40
Gene No.	107509	Strand	+
Start	1407	End	3598
Name	OJ000209_28.0419.C40.o1.gp	Method	AAT/GAP
Start	1407	End	2474
GI	none	Score	818
Exons	1407..1459, 2101..2474		

Seq. No.	50698	Seq. ID	OJ000209_28.0419.C40
Gene No.	107509	Strand	+
Start	1407	End	3598
Name	OJ000209_28.0419.C40.o1.gs	Method	GENSCAN
Start	2130	End	3598
GI	none	Score	.55
Exons	2130..3320, 3484..3598		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107510	Strand	+
Start	1543	End	1697
Name	OJ000229_24.0419.C1.o1.np	Method	AAT/NAP
Start	1543	End	1697
GI	5777617	Score	105
Exons	1543..1697		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107511	Strand	+
Start	1988	End	3969
Name	OJ000229_24.0419.C1.o3.np	Method	AAT/NAP
Start	1988	End	3969
GI	7242910	Score	79
Exons	1988..2040, 3872..3969		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107512	Strand	+
Start	4248	End	13719
Name	OJ000229_24.0419.C1.o2.gs	Method	GENSCAN
Start	4248	End	13618
GI	none	Score	.67
Exons	4248..4320, 4785..4810, 6077..6316, 6500..6598, 6861..7285, 7406..7634, 9974..10080, 10091..10145, 10302..10367, 11575..11643, 12019..12099, 12178..12342, 13000..13098, 13491..13590, 13605..13618		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107512	Strand	+

Start	4248	End	13719
Name	OJ000229_24.0419.C1.o4.np	Method	AAT/NAP
Start	6527	End	13719
GI	4038594	Score	1484
Exons	6527..6598, 6861..7285, 7406..7693, 11180..11264, 11575..11643, 11877..11933, 12019..12099, 12178..12342, 13003..13098, 13491..13719		
GI Descrip.	(AJ222798) tDET1 protein [Lycopersicon esculentum] gi 4454332 emb CAA11914 (AJ224356) tDET1 protein [Lycopersicon esculentum]		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107512	Strand	+
Start	4248	End	13719
Name	OJ000229_24.0419.C1.o2.gp	Method	AAT/GAP
Start	12001	End	12531
GI	LIB3431-019-P1-K1-B11	Score	849
Exons	12001..12099, 12178..12531		
GI Descrip.	'4038594/emb CAA10993 8.0e-25 (AJ222798) tDET1 protein [Lycopersicon esculentum] >gi_4454332_emb_CAA11914_ (AJ224356) tDET1 protein [Lycopersicon esculentum]'		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107513	Strand	-
Start	278	End	4931
Name	OJ000229_24.0419.C1.o1.gs	Method	GENSCAN
Start	278	End	3576
GI	none	Score	.66
Exons	278..377, 1215..1242, 1298..1534, 2890..2973, 3115..3449, 3499..3576		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107513	Strand	-
Start	278	End	4931
Name	OJ000229_24.0419.C1.o2.np	Method	AAT/NAP
Start	1439	End	4931
GI	6693020	Score	123
Exons	1439..1562, 3161..3388, 3499..3627, 4301..4339, 4902..4931		
GI Descrip.	(AC012375) T22C5.14 [Arabidopsis thaliana]		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107514	Strand	-
Start	13521	End	13592
Name	OJ000229_24.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	6362	End	7115
GI	none	Score	39
Exons	6362..6457, 6499..6579, 6500..6580, 6860..7114, 6861..7115		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107514	Strand	-
Start	13521	End	13592
Name	OJ000229_24.0419.C1.o3.ts	Method	TBLASTX:Soybean
Start	6848	End	7088
GI	none	Score	94
Exons	6848..6979, 6854..7042, 6858..7043, 6858..7046, 7038..7088		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
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Gene No.	107514	Strand	-
Start	13521	End	13592
Name	OJ000229_24.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	6918	End	7226
GI	none	Score	147
Exons	6918..7034, 6920..7042, 7061..7162, 7062..7226, 7080..7220		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107514	Strand	-
Start	13521	End	13592
Name	OJ000229_24.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	7082	End	7564
GI	none	Score	326
Exons	7082..7285, 7083..7286, 7087..7287, 7088..7300, 7392..7562, 7397..7564, 7403..7564		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107514	Strand	-
Start	13521	End	13592
Name	OJ000229_24.0419.C1.o2.ts	Method	TBLASTX:Soybean
Start	7113	End	7495
GI	none	Score	210
Exons	7113..7286, 7118..7285, 7388..7495, 7392..7493		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107514	Strand	-
Start	13521	End	13592
Name	OJ000229_24.0419.C1.o2.tc	Method	TBLASTX:Cress
Start	7467	End	11255
GI	none	Score	199
Exons	7467..7634, 7469..7624, 11183..11254, 11184..11255		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107514	Strand	-
Start	13521	End	13592
Name	OJ000229_24.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	7576	End	13592
GI	none	Score	87
Exons	7576..7632, 7581..7634, 11163..11261, 11166..11264, 11177..11272, 11183..11275, 11574..11645, 11575..11646, 11578..11646, 11848..11934, 11859..11939, 11874..11933, 11875..11934, 11876..11941, 12018..12098, 12018..12098, 12019..12099, 12020..12106, 12175..12348, 12176..12340, 12202..12342, 12999..13118, 13000..13110, 13488..13559, 13488..13553, 13490..13558, 13562..13591, 13563..13592, 13563..13592		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107514	Strand	-
Start	13521	End	13592
Name	OJ000229_24.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	11574	End	13062
GI	none	Score	122
Exons	11574..11645, 11575..11646, 11859..11939, 11864..11935, 12018..12098, 12019..12099, 12169..12348, 12202..12333, 12999..13061, 13000..13062		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107514	Strand	-
Start	13521	End	13592
Name	OJ000229_24.0419.C1.o2.tw	Method	TBLASTX:Wheat
Start	13470	End	13592
GI	none	Score	184
Exons	13470..13589, 13478..13591, 13479..13592		

Seq. No.	50699	Seq. ID	OJ000229_24.0419.C1
Gene No.	107514	Strand	-
Start	13521	End	13592
Name	OJ000229_24.0419.C1.o3.gp	Method	AAT/GAP
Start	13521	End	13592
GI	3268_1.R1084	Score	114
Exons	13521..13592		
GI Descrip.	'4038594/emb CAA10993 2.0e-14 (AJ222798) tDET1 protein [Lycopersicon esculentum] >gi_4454332_emb_CAA11914_ (AJ224356) tDET1 protein [Lycopersicon esculentum]'		

Seq. No.	50700	Seq. ID	OJ000229_24.0419.C2
Gene No.	107515	Strand	+
Start	1	End	1907
Name	OJ000229_24.0419.C2.o2.np	Method	AAT/NAP
Start	1	End	1907
GI	7106516	Score	116
Exons	1..38, 941..1007, 1730..1907		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	50700	Seq. ID	OJ000229_24.0419.C2
Gene No.	107516	Strand	-
Start	1040	End	2911
Name	OJ000229_24.0419.C2.o1.np	Method	AAT/NAP
Start	935	End	2437
GI	7228450	Score	221
Exons	935..1050, 1154..1267, 1398..1483, 2326..2437		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	50700	Seq. ID	OJ000229_24.0419.C2
Gene No.	107516	Strand	-
Start	1040	End	2911
Name	OJ000229_24.0419.C2.o1.gs	Method	GENSCAN
Start	1040	End	2844
GI	none	Score	.57
Exons	1040..1267, 1753..2047, 2722..2844		

Seq. No.	50700	Seq. ID	OJ000229_24.0419.C2
Gene No.	107516	Strand	-
Start	1040	End	2911
Name	OJ000229_24.0419.C2.o3.np	Method	AAT/NAP
Start	2076	End	2911
GI	7340868	Score	192
Exons	2076..2318, 2628..2911		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	50701	Seq. ID	OJ000229_24.0419.C3
Gene No.	107517	Strand	-
Start	1391	End	2728

Name	OJ000229_24.0419.C3.o1.np	Method	AAT/NAP
Start	183	End	2473
GI	6223650	Score	480
Exons	183..199, 1802..2169, 2277..2473		
GI Descrip.	(AC011698) NAM-like protein (no apical meristem) [Arabidopsis thaliana]		

Seq. No.	50701	Seq. ID	OJ000229_24.0419.C3
Gene No.	107517	Strand	-
Start	1391	End	2728
Name	OJ000229_24.0419.C3.o1.gp	Method	AAT/GAP
Start	1155	End	1925
GI	none	Score	998
Exons	1155..1925		

Seq. No.	50701	Seq. ID	OJ000229_24.0419.C3
Gene No.	107517	Strand	-
Start	1391	End	2728
Name	OJ000229_24.0419.C3.o1.gs	Method	GENSCAN
Start	1391	End	2460
GI	none	Score	.99
Exons	1391..2169, 2277..2460		

Seq. No.	50701	Seq. ID	OJ000229_24.0419.C3
Gene No.	107517	Strand	-
Start	1391	End	2728
Name	OJ000229_24.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	1669	End	2421
GI	none	Score	38
Exons	1669..1722, 1719..1742, 1720..1746, 1826..1882, 1827..1883, 1928..2020, 1932..2018, 2033..2152, 2040..2153, 2272..2337, 2273..2359, 2326..2421		

Seq. No.	50701	Seq. ID	OJ000229_24.0419.C3
Gene No.	107517	Strand	-
Start	1391	End	2728
Name	OJ000229_24.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	1838	End	2421
GI	none	Score	109
Exons	1838..1879, 1928..2017, 1935..2018, 2033..2152, 2034..2159, 2272..2337, 2273..2338, 2347..2421, 2348..2413		

Seq. No.	50701	Seq. ID	OJ000229_24.0419.C3
Gene No.	107517	Strand	-
Start	1391	End	2728
Name	OJ000229_24.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	1838	End	2430
GI	none	Score	108
Exons	1838..1879, 1928..2017, 1935..2012, 2030..2152, 2034..2159, 2272..2337, 2272..2358, 2277..2345, 2279..2359, 2341..2430		

Seq. No.	50701	Seq. ID	OJ000229_24.0419.C3
Gene No.	107517	Strand	-
Start	1391	End	2728
Name	OJ000229_24.0419.C3.o2.gp	Method	AAT/GAP
Start	1871	End	2728
GI	68488_1.R1084	Score	1003

Exons 1871..2169, 2277..2502, 2666..2728
 GI Descrip. '1279640/emb|CAA63101| 1.0e-40 (X92204) NAM [Petunia x hybrida]
 >gi_6066595_emb_CAA63102.2_ (X92205) NAM [Petunia x hybrida]'

Seq. No. 50701 Seq. ID OJ000229_24.0419.C3
 Gene No. 107517 Strand -
 Start 1391 End 2728
 Name OJ000229_24.0419.C3.ol.tw Method TBLASTX:Wheat
 Start 1928 End 2143
 GI none Score 86
 Exons 1928..2014, 1932..2012, 2036..2143, 2043..2141

Seq. No. 50702 Seq. ID OJ000229_24.0419.C6
 Gene No. 107518 Strand +
 Start 1 End 920
 Name OJ000229_24.0419.C6.ol.gp Method AAT/GAP
 Start 1 End 920
 GI 15538_1.R1084 Score 925
 Exons 1..204, 294..365, 449..487, 628..735, 815..920
 GI Descrip. '4581114/gb|AAD24604.1|AC005825_11 2.0e-28 (AC005825) putative
 HesB-like protein;required for efficient nitrogen fixation in
 Cyanobacteria [Arabidopsis thaliana]'

Seq. No. 50702 Seq. ID OJ000229_24.0419.C6
 Gene No. 107518 Strand +
 Start 1 End 920
 Name OJ000229_24.0419.C6.ol.tm Method TBLASTX:Maize
 Start 5 End 894
 GI none Score 250
 Exons 5..193, 7..171, 171..209, 172..210, 292..366, 294..365,
 445..486, 446..487, 625..738, 625..735, 627..788, 775..885,
 787..894, 798..893

Seq. No. 50702 Seq. ID OJ000229_24.0419.C6
 Gene No. 107518 Strand +
 Start 1 End 920
 Name OJ000229_24.0419.C6.ol.ts Method TBLASTX:Soybean
 Start 19 End 210
 GI none Score 206
 Exons 19..168, 20..193, 26..169, 172..210

Seq. No. 50702 Seq. ID OJ000229_24.0419.C6
 Gene No. 107518 Strand +
 Start 1 End 920
 Name OJ000229_24.0419.C6.ol.gs Method GENSCAN
 Start 330 End 916
 GI none Score .78
 Exons 330..365, 628..735, 815..916

Seq. No. 50702 Seq. ID OJ000229_24.0419.C6
 Gene No. 107518 Strand +
 Start 1 End 920
 Name OJ000229_24.0419.C6.ol.tc Method TBLASTX:Cress
 Start 625 End 919
 GI none Score 129
 Exons 625..738, 627..734, 787..909, 812..910, 812..919

Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107519	Strand	+
Start	63	End	3074
Name	OJ000229_24.0419.C7.o1.gs	Method	GENSCAN
Start	63	End	3068
GI	none	Score	.63
Exons	63..244, 1376..1489, 1654..1795, 2779..3068		

Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107519	Strand	+
Start	63	End	3074
Name	OJ000229_24.0419.C7.o1.gp	Method	AAT/GAP
Start	175	End	384
GI	3762937	Score	412
Exons	175..384		

Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107519	Strand	+
Start	63	End	3074
Name	OJ000229_24.0419.C7.o2.gp	Method	AAT/GAP
Start	1399	End	2902
GI	2275924	Score	778
Exons	1399..1489, 1566..1795, 2779..2902		
GI Descrip.	4581114/gb AAD24604.1 AC005825_11 2.0e-28 (AC005825) putative HesB-like protein;required for efficient nitrogen fixation in Cyanobacteria [Arabidopsis thaliana]		

Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107519	Strand	+
Start	63	End	3074
Name	OJ000229_24.0419.C7.o2.np	Method	AAT/NAP
Start	1603	End	3074
GI	4581114	Score	414
Exons	1603..1795, 2779..2896, 2975..3074		
GI Descrip.	(AC005825) putative HesB-like protein [Arabidopsis thaliana]		

Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107520	Strand	-
Start	3695	End	4787
Name	OJ000229_24.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	82	End	376
GI	none	Score	402
Exons	82..375, 98..376		

Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107520	Strand	-
Start	3695	End	4787
Name	OJ000229_24.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	98	End	358
GI	none	Score	311
Exons	98..358, 130..357		

Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107520	Strand	-
Start	3695	End	4787
Name	OJ000229_24.0419.C7.o2.tc	Method	TBLASTX:Cress
Start	191	End	370

GI	none	Score	248
Exons	191..370, 193..357		
Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107520	Strand	-
Start	3695	End	4787
Name	OJ000229_24.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	1657	End	3043
GI	none	Score	177
Exons	1657..1794, 1743..1793, 2772..2897, 2843..2899, 2972..3043, 2973..3038		

Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107520	Strand	-
Start	3695	End	4787
Name	OJ000229_24.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	1657	End	3061
GI	none	Score	192
Exons	1657..1794, 1696..1791, 1743..1793, 2772..2897, 2778..2888, 2843..2899, 2972..3058, 2973..3038, 2981..3061		

Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107520	Strand	-
Start	3695	End	4787
Name	OJ000229_24.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	1657	End	2888
GI	none	Score	202
Exons	1657..1794, 1705..1791, 1743..1793, 2772..2888, 2778..2888		

Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107520	Strand	-
Start	3695	End	4787
Name	OJ000229_24.0419.C7.o3.np	Method	AAT/NAP
Start	3695	End	4551
GI	6693018	Score	211
Exons	3695..3835, 4130..4198, 4292..4357, 4473..4551		
GI Descrip.	(AC012375) T22C5.11 [Arabidopsis thaliana]		

Seq. No.	50703	Seq. ID	OJ000229_24.0419.C7
Gene No.	107520	Strand	-
Start	3695	End	4787
Name	OJ000229_24.0419.C7.o2.gs	Method	GENSCAN
Start	3887	End	4787
GI	none	Score	.49
Exons	3887..4020, 4473..4645, 4666..4787		

Seq. No.	50704	Seq. ID	OJ000229_24.0419.C8
Gene No.	107521	Strand	+
Start	189	End	788
Name	OJ000229_24.0419.C8.o1.gs	Method	GENSCAN
Start	189	End	788
GI	none	Score	.78
Exons	189..346, 737..788		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107522	Strand	+
Start	640	End	3000

Name	OJ000229_24.0419.C13.o1.gs	Method	GENSCAN
Start	640	End	3000
GI	none	Score	.67
Exons	640..718, 1272..1445, 1846..2163, 2512..3000		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107523	Strand	+
Start	7834	End	12805
Name	OJ000229_24.0419.C13.o4.np	Method	AAT/NAP
Start	7834	End	10905
GI	7340884	Score	1483
Exons	7834..8189, 8799..9897, 9944..10905		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107523	Strand	+
Start	7834	End	12805
Name	OJ000229_24.0419.C13.o4.gs	Method	GENSCAN
Start	8765	End	12805
GI	none	Score	.63
Exons	8765..9840, 10270..10442, 10668..10896, 11376..11662, 11828..12252, 12764..12805		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107523	Strand	+
Start	7834	End	12805
Name	OJ000229_24.0419.C13.o5.np	Method	AAT/NAP
Start	11824	End	12304
GI	5668772	Score	270
Exons	11824..12304		
GI Descrip.	(AC005916) Similar to gb Z84571 anthranilate N-hydroxycinnamoyl/benzoyltransferase from Dianthus caryophyllus. [Arabidopsis thaliana] gi 6693014 gb AAF24940.1 AC012375_3 (AC012375) T22C5.6 [Arabidopsis thaliana]		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107524	Strand	+
Start	12747	End	19817
Name	OJ000229_24.0419.C13.o6.np	Method	AAT/NAP
Start	12747	End	15067
GI	4680203	Score	711
Exons	12747..12801, 14004..15067		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107524	Strand	+
Start	12747	End	19817
Name	OJ000229_24.0419.C13.o6.gs	Method	GENSCAN
Start	14004	End	19817
GI	none	Score	.59
Exons	14004..15049, 15089..15193, 15236..15807, 18148..18881, 18960..19421, 19774..19817		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107525	Strand	-

Start	2264	End	6644
Name	OJ000229_24.0419.C13.o3.np	Method	AAT/NAP
Start	2264	End	6472
GI	2827143	Score	132
Exons	2264..2315, 6200..6472		
GI Descrip.	(AF027174) cellulose synthase catalytic subunit [Arabidopsis thaliana]		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107525	Strand	-
Start	2264	End	6644
Name	OJ000229_24.0419.C13.o2.np	Method	AAT/NAP
Start	2962	End	5571
GI	5932533	Score	68
Exons	2962..3042, 5297..5571		
GI Descrip.	(AC009465) putative sodium proton exchanger [Arabidopsis thaliana]		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107525	Strand	-
Start	2264	End	6644
Name	OJ000229_24.0419.C13.o2.gs	Method	GENSCAN
Start	3284	End	4239
GI	none	Score	.62
Exons	3284..3409, 3863..3952, 4032..4163, 4237..4239		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107525	Strand	-
Start	2264	End	6644
Name	OJ000229_24.0419.C13.o1.np	Method	AAT/NAP
Start	3863	End	6644
GI	6714288	Score	313
Exons	3863..3955, 4056..4163, 4237..4489, 6591..6644		
GI Descrip.	(AC013354) F15H18.12 [Arabidopsis thaliana]		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107525	Strand	-
Start	2264	End	6644
Name	OJ000229_24.0419.C13.o1.gp	Method	AAT/GAP
Start	6239	End	6293
GI	uC-osflcyp120f01b1	Score	79
Exons	6239..6293		
GI Descrip.	'2827143 2.0e-31 (AF027174) cellulose synthase catalytic subunit [Arabidopsis thaliana]'		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107526	Strand	-
Start	11794	End	12255
Name	OJ000229_24.0419.C13.o2.gp	Method	AAT/GAP
Start	11794	End	12255
GI	43392_1.R1084	Score	815
Exons	11794..12255		
GI Descrip.	'5668772/gb AAD45999.1 AC005916_11 9.0e-28 (AC005916) Similar to gb_Z84571 anthranilate N-hydroxycinnamoyl/benzoyltransferase from Dianthus caryophyllus. [Arabidopsis thaliana]'		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
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Gene No.	107527	Strand	-
Start	13412	End	13702
Name	OJ000229_24.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	4095	End	4438
GI	none	Score	65
Exons	4095..4163, 4099..4170, 4220..4294, 4228..4293, 4295..4438, 4296..4430		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107527	Strand	-
Start	13412	End	13702
Name	OJ000229_24.0419.C13.o3.ts	Method	TBLASTX:Soybean
Start	6175	End	6335
GI	none	Score	147
Exons	6175..6330, 6216..6335		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107527	Strand	-
Start	13412	End	13702
Name	OJ000229_24.0419.C13.o2.tc	Method	TBLASTX:Cress
Start	6216	End	6342
GI	none	Score	105
Exons	6216..6341, 6235..6342		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107527	Strand	-
Start	13412	End	13702
Name	OJ000229_24.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	6216	End	6448
GI	none	Score	184
Exons	6216..6350, 6226..6351, 6349..6393, 6356..6448		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107527	Strand	-
Start	13412	End	13702
Name	OJ000229_24.0419.C13.o3.tm	Method	TBLASTX:Maize
Start	9056	End	9346
GI	none	Score	67
Exons	9056..9124, 9076..9117, 9142..9345, 9161..9346		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107527	Strand	-
Start	13412	End	13702
Name	OJ000229_24.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	9347	End	10804
GI	none	Score	177
Exons	9347..9388, 9428..9658, 9487..9651, 9680..9796, 9695..9778, 9884..9946, 10022..10171, 10163..10276, 10607..10804, 10621..10731		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107527	Strand	-
Start	13412	End	13702
Name	OJ000229_24.0419.C13.o5.gs	Method	GENSCAN
Start	13412	End	13702
GI	none	Score	.93
Exons	13412..13444, 13484..13523, 13638..13702		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107528	Strand	
Start	14358	End	15041
Name	OJ000229_24.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	14358	End	15038
GI	none	Score	218
Exons	14358..14756, 14597..14758, 14804..14899, 14805..14909, 14913..15038		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107528	Strand	
Start	14358	End	15041
Name	OJ000229_24.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	14637	End	15041
GI	none	Score	126
Exons	14637..14756, 14638..14757, 14639..14758, 14807..15040, 14808..15041		

Seq. No.	50705	Seq. ID	OJ000229_24.0419.C13
Gene No.	107528	Strand	
Start	14358	End	15041
Name	OJ000229_24.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	14804	End	15038
GI	none	Score	208
Exons	14804..14941, 14805..15038, 14978..15037		

Seq. No.	50706	Seq. ID	OJ000229_24.0419.C14
Gene No.	107529	Strand	+
Start	1106	End	5845
Name	OJ000229_24.0419.C14.o1.gp	Method	AAT/GAP
Start	1106	End	4795
GI	43392_1.R1084	Score	918
Exons	1106..1564, 4760..4795		
GI Descrip.	'5668772/gb AAD45999.1 AC005916_11 9.0e-28 (AC005916) Similar to gb_Z84571 anthranilate N-hydroxycinnamoyl/benzoyltransferase from Dianthus caryophyllus. [Arabidopsis thaliana]'		

Seq. No.	50706	Seq. ID	OJ000229_24.0419.C14
Gene No.	107529	Strand	+
Start	1106	End	5845
Name	OJ000229_24.0419.C14.o1.np	Method	AAT/NAP
Start	1136	End	5671
GI	5668772	Score	873
Exons	1136..1564, 4760..5671		
GI Descrip.	(AC005916) Similar to gb Z84571 anthranilate N-hydroxycinnamoyl/benzoyltransferase from Dianthus caryophyllus. [Arabidopsis thaliana] gi 6693014 gb AAF24940.1 AC012375_3 (AC012375) T22C5.6 [Arabidopsis thaliana]		

Seq. No.	50706	Seq. ID	OJ000229_24.0419.C14
Gene No.	107529	Strand	+
Start	1106	End	5845
Name	OJ000229_24.0419.C14.o2.gp	Method	AAT/GAP
Start	5390	End	5845
GI	2280827	Score	775

Exons 5390..5845

Seq. No.	50706	Seq. ID	OJ000229_24.0419.C14
Gene No.	107530	Strand	+
Start	7687	End	8027
Name	OJ000229_24.0419.C14.o2.gs	Method	GENSCAN
Start	7687	End	8027
GI	none	Score	.67
Exons	7687..7756, 7996..8027		

Seq. No.	50706	Seq. ID	OJ000229_24.0419.C14
Gene No.	107531	Strand	-
Start	7805	End	8052
Name	OJ000229_24.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	5111	End	5611
GI	none	Score	77
Exons	5111..5173, 5177..5305, 5297..5434, 5405..5611		

Seq. No.	50706	Seq. ID	OJ000229_24.0419.C14
Gene No.	107531	Strand	-
Start	7805	End	8052
Name	OJ000229_24.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	5306	End	5485
GI	none	Score	244
Exons	5306..5485, 5320..5451		

Seq. No.	50706	Seq. ID	OJ000229_24.0419.C14
Gene No.	107531	Strand	-
Start	7805	End	8052
Name	OJ000229_24.0419.C14.o3.gp	Method	AAT/GAP
Start	7805	End	8052
GI	77385_1.R1084	Score	423
Exons	7805..8052		
GI Descrip.	'2131347/pir S67701 8.0e-11 hypothetical protein YDL153c - yeast (Saccharomyces cerevisiae) >gi_1431240_emb_CAA98726 (Z74201) ORF YDL153c [Saccharomyces cerevisiae] >gi_1480820 (U63063) something about silencing 10 [Saccharomyces cerevisiae]'		

Seq. No.	50707	Seq. ID	OJ000229_24.0419.C16
Gene No.	107532	Strand	+
Start	2510	End	3074
Name	OJ000229_24.0419.C16.o1.gs	Method	GENSCAN
Start	2510	End	3074
GI	none	Score	.88
Exons	2510..2622, 2720..3074		

Seq. No.	50707	Seq. ID	OJ000229_24.0419.C16
Gene No.	107533	Strand	-
Start	451	End	711
Name	OJ000229_24.0419.C16.o1.gp	Method	AAT/GAP
Start	451	End	711
GI	LIB3431-010-P1-N1-F11	Score	452
Exons	451..711		
GI Descrip.	'287403/dbj D10838 RICSBE1 1.0e-111 Rice gene for starch branching enzyme'		

Seq. No.	50707	Seq. ID	OJ000229_24.0419.C16
Gene No.	107534	Strand	-
Start	1946	End	2568
Name	OJ000229_24.0419.C16.o1.np	Method	AAT/NAP
Start	1946	End	2568
GI	6721559	Score	262
Exons	1946..2079, 2108..2568		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1 (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	50708	Seq. ID	OJ000229_24.0419.C17
Gene No.	107535	Strand	+
Start	858	End	948
Name	OJ000229_24.0419.C17.o1.np	Method	AAT/NAP
Start	858	End	948
GI	6721561	Score	122
Exons	858..948		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50709	Seq. ID	OJ000229_24.0419.C18
Gene No.	107536	Strand	+
Start	136	End	2053
Name	OJ000229_24.0419.C18.o1.gs	Method	GENSCAN
Start	136	End	633
GI	none	Score	.93
Exons	136..262, 335..633		

Seq. No.	50709	Seq. ID	OJ000229_24.0419.C18
Gene No.	107536	Strand	+
Start	136	End	2053
Name	OJ000229_24.0419.C18.o1.np	Method	AAT/NAP
Start	202	End	2053
GI	5042448	Score	395
Exons	202..633, 2030..2053		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107537	Strand	+
Start	4672	End	5305
Name	OJ000229_24.0419.C19.o2.gs	Method	GENSCAN
Start	4672	End	5305
GI	none	Score	.6
Exons	4672..4677, 4950..5152, 5161..5305		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107538	Strand	+
Start	7703	End	8611
Name	OJ000229_24.0419.C19.o3.gs	Method	GENSCAN
Start	7703	End	8611
GI	none	Score	.99
Exons	7703..7742, 8484..8611		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107539	Strand	+
Start	9055	End	9159
Name	OJ000229_24.0419.C19.o3.np	Method	AAT/NAP
Start	9055	End	9159
GI	5777617	Score	72
Exons	9055..9159		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107540	Strand	-
Start	148	End	3115
Name	OJ000229_24.0419.C19.o1.gs	Method	GENSCAN
Start	148	End	3041
GI	none	Score	.97
Exons	148..158, 1438..1666, 2359..2481, 2589..3041		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107540	Strand	-
Start	148	End	3115
Name	OJ000229_24.0419.C19.o1.gp	Method	AAT/GAP
Start	932	End	3115
GI	288_4.R1084	Score	2287
Exons	932..1293, 1438..1666, 2359..2481, 2589..3115		
GI Descrip.	'1296955/emb CAA64683 2.0e-66 (X95402) duplicated domain structure protein [Oryza sativa]'		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107540	Strand	-
Start	148	End	3115
Name	OJ000229_24.0419.C19.o1.np	Method	AAT/NAP
Start	1439	End	2696
GI	7489571	Score	535
Exons	1439..1666, 2359..2481, 2589..2696		
GI Descrip.	r40c1 protein - rice gi 1296955 emb CAA64683.1 (X95402) duplicated domain structure protein [Oryza sativa]		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107541	Strand	-
Start	7216	End	7299
Name	OJ000229_24.0419.C19.o2.np	Method	AAT/NAP
Start	7216	End	7299
GI	5852084	Score	78
Exons	7216..7299		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107542	Strand	-
Start	8945	End	11815
Name	OJ000229_24.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	1430	End	2485
GI	none	Score	199
Exons	1430..1666, 1440..1667, 2293..2484, 2357..2485		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107542	Strand	-

Start	8945	End	11815
Name	OJ000229_24.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	1434	End	2966
GI	none	Score	320
Exons	1434..1667, 1439..1666, 2290..2484, 2347..2484, 2354..2485, 2354..2485, 2589..2687, 2589..2690, 2590..2691, 2676..2714, 2695..2736, 2703..2738, 2704..2736, 2781..2819, 2946..2966		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107542	Strand	-
Start	8945	End	11815
Name	OJ000229_24.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	1439	End	2484
GI	none	Score	182
Exons	1439..1666, 1443..1667, 2290..2484, 2354..2482, 2359..2484		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107542	Strand	-
Start	8945	End	11815
Name	OJ000229_24.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	1439	End	1678
GI	none	Score	255
Exons	1439..1678, 1440..1649		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107542	Strand	-
Start	8945	End	11815
Name	OJ000229_24.0419.C19.o2.tw	Method	TBLASTX:Wheat
Start	2350	End	2699
GI	none	Score	156
Exons	2350..2484, 2354..2482, 2589..2657, 2667..2699		

Seq. No.	50710	Seq. ID	OJ000229_24.0419.C19
Gene No.	107542	Strand	-
Start	8945	End	11815
Name	OJ000229_24.0419.C19.o4.gs	Method	GENSCAN
Start	8945	End	11815
GI	none	Score	.73
Exons	8945..9057, 9392..9502, 9687..9816, 10017..10140, 11799..11815		

Seq. No.	50711	Seq. ID	OJ000229_24.0419.C20
Gene No.	107543	Strand	-
Start	1	End	717
Name	OJ000229_24.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	699
GI	7021736	Score	529
Exons	1..45, 190..699		
GI Descrip.	(AC024081) putative jasmonic acid regulatory protein [Arabidopsis thaliana]		

Seq. No.	50711	Seq. ID	OJ000229_24.0419.C20
Gene No.	107543	Strand	-
Start	1	End	717
Name	OJ000229_24.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	1	End	651
GI	none	Score	90
Exons	1..48, 250..480, 260..343, 377..487, 484..651, 485..556		

Seq. No.	50711	Seq. ID	OJ000229_24.0419.C20
Gene No.	107543	Strand	-
Start	1	End	717
Name	OJ000229_24.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	4	End	481
GI	none	Score	94
Exons	4..48, 251..334, 256..342, 260..343, 358..480, 377..481		

Seq. No.	50711	Seq. ID	OJ000229_24.0419.C20
Gene No.	107543	Strand	-
Start	1	End	717
Name	OJ000229_24.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	7	End	678
GI	none	Score	97
Exons	7..48, 250..342, 256..345, 373..480, 377..481, 484..651, 490..555, 623..640, 652..678		

Seq. No.	50711	Seq. ID	OJ000229_24.0419.C20
Gene No.	107543	Strand	-
Start	1	End	717
Name	OJ000229_24.0419.C20.o1.gs	Method	GENSCAN
Start	160	End	717
GI	none	Score	.56
Exons	160..717		

Seq. No.	50711	Seq. ID	OJ000229_24.0419.C20
Gene No.	107543	Strand	-
Start	1	End	717
Name	OJ000229_24.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	250	End	657
GI	none	Score	115
Exons	250..342, 257..343, 362..481, 364..480, 484..657, 485..556		

Seq. No.	50711	Seq. ID	OJ000229_24.0419.C20
Gene No.	107543	Strand	-
Start	1	End	717
Name	OJ000229_24.0419.C20.o1.gp	Method	AAT/GAP
Start	332	End	623
GI	3768398	Score	541
Exons	332..623		
GI Descrip.	2443890 3.0e-28 (AC002294) similar to NAM (gp_X92205_1321924) and CUC2 (gp_AB002560_1944132) proteins [Arabidopsis thaliana]		

Seq. No.	50711	Seq. ID	OJ000229_24.0419.C20
Gene No.	107543	Strand	-
Start	1	End	717
Name	OJ000229_24.0419.C20.o2.tw	Method	TBLASTX:Wheat
Start	493	End	708
GI	none	Score	184
Exons	493..708		

Seq. No.	50712	Seq. ID	OJ000229_24.0419.C21
Gene No.	107544	Strand	-
Start	1	End	934
Name	OJ000229_24.0419.C21.o1.gp	Method	AAT/GAP
Start	1	End	313

GI 11174_1.R1084 Score 343
 Exons 1..60, 162..313
 GI Descrip. '6015437/dbj|AB008112.1|AB008112 6.0e-11 Homo sapiens PEX1 mRNA, complete cds'

Seq. No. 50712 Seq. ID OJ000229_24.0419.C21
 Gene No. 107544 Strand -
 Start 1 End 934
 Name OJ000229_24.0419.C21.o1.np Method AAT/NAP
 Start 1 End 934
 GI 7288014 Score 133
 Exons 1..60, 162..311, 905..934
 GI Descrip. (AL132971) RING finger-like protein [Arabidopsis thaliana]

Seq. No. 50712 Seq. ID OJ000229_24.0419.C21
 Gene No. 107544 Strand -
 Start 1 End 934
 Name OJ000229_24.0419.C21.o1.tm Method TBLASTX:Maize
 Start 14 End 342
 GI none Score 64
 Exons 14..91, 16..78, 162..317, 162..317, 163..318, 182..334, 190..342

Seq. No. 50712 Seq. ID OJ000229_24.0419.C21
 Gene No. 107544 Strand -
 Start 1 End 934
 Name OJ000229_24.0419.C21.o1.gs Method GENSCAN
 Start 162 End 311
 GI none Score .96
 Exons 162..311

Seq. No. 50713 Seq. ID OJ000229_24.0419.C22
 Gene No. 107545 Strand -
 Start 230 End 1748
 Name OJ000229_24.0419.C22.o1.gs Method GENSCAN
 Start 230 End 1671
 GI none Score .66
 Exons 230..260, 794..939, 1064..1295, 1391..1671

Seq. No. 50713 Seq. ID OJ000229_24.0419.C22
 Gene No. 107545 Strand -
 Start 230 End 1748
 Name OJ000229_24.0419.C22.o2.ts Method TBLASTX:Soybean
 Start 785 End 1126
 GI none Score 115
 Exons 785..940, 796..945, 1082..1126

Seq. No. 50713 Seq. ID OJ000229_24.0419.C22
 Gene No. 107545 Strand -
 Start 230 End 1748
 Name OJ000229_24.0419.C22.o1.np Method AAT/NAP
 Start 794 End 1748
 GI 7288014 Score 516
 Exons 794..939, 1064..1295, 1391..1748
 GI Descrip. (AL132971) RING finger-like protein [Arabidopsis thaliana]

Seq. No. 50713 Seq. ID OJ000229_24.0419.C22
 Gene No. 107545 Strand -

Start	230	End	1748
Name	OJ000229_24.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	794	End	1674
GI	none	Score	190
Exons	794..946, 796..945, 1049..1144, 1063..1134, 1064..1144, 1130..1294, 1131..1202, 1135..1296, 1142..1297, 1356..1532, 1370..1528, 1372..1533, 1597..1674, 1609..1662		

Seq. No.	50713	Seq. ID	OJ000229_24.0419.C22
Gene No.	107545	Strand	-
Start	230	End	1748
Name	OJ000229_24.0419.C22.o1.gp	Method	AAT/GAP
Start	898	End	1437
GI	2309927	Score	556
Exons	898..939, 1064..1295, 1391..1437		

Seq. No.	50713	Seq. ID	OJ000229_24.0419.C22
Gene No.	107545	Strand	-
Start	230	End	1748
Name	OJ000229_24.0419.C22.o2.gp	Method	AAT/GAP
Start	901	End	1440
GI	2309927	Score	563
Exons	901..939, 1064..1295, 1391..1440		

Seq. No.	50713	Seq. ID	OJ000229_24.0419.C22
Gene No.	107545	Strand	-
Start	230	End	1748
Name	OJ000229_24.0419.C22.o3.gp	Method	AAT/GAP
Start	996	End	1484
GI	2309927	Score	576
Exons	996..1295, 1391..1484		

Seq. No.	50713	Seq. ID	OJ000229_24.0419.C22
Gene No.	107545	Strand	-
Start	230	End	1748
Name	OJ000229_24.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	1133	End	1672
GI	none	Score	82
Exons	1133..1297, 1148..1294, 1260..1304, 1370..1513, 1371..1514, 1372..1629, 1643..1672		

Seq. No.	50713	Seq. ID	OJ000229_24.0419.C22
Gene No.	107545	Strand	-
Start	230	End	1748
Name	OJ000229_24.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	1402	End	1536
GI	none	Score	96
Exons	1402..1536, 1412..1519		

Seq. No.	50714	Seq. ID	OJ000229_24.0419.C23
Gene No.	107546	Strand	+
Start	1	End	2666
Name	OJ000229_24.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	2666
GI	7488186	Score	424
Exons	1..29, 1089..1456, 2132..2666		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-)		

A_IG002N01.22 - Arabidopsis thaliana gi|2191149|gb|AAB61036.1|
(AF007269) Similar to protein kinase [Arabidopsis thaliana]
gi|7267630|emb|CAB80942.1| (AL161491) putative protein kinase
[Arabidopsis thaliana]

Seq. No.	50714	Seq. ID	OJ000229_24.0419.C23
Gene No.	107546	Strand	+
Start	1	End	2666
Name	OJ000229_24.0419.C23.o1.gp	Method	AAT/GAP
Start	958	End	2355
GI	24144 1.R1084	Score	1355
Exons	958..1456, 2132..2355		
GI Descrip.	'3641836/emb CAA18823.1 2.0e-19 (AL023094) putative serine/threonine protein kinase [Arabidopsis thaliana]'		

Seq. No.	50714	Seq. ID	OJ000229_24.0419.C23
Gene No.	107547	Strand	-
Start	2624	End	2712
Name	OJ000229_24.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	1	End	2645
GI	none	Score	64
Exons	1..93, 2133..2645, 2171..2386		

Seq. No.	50714	Seq. ID	OJ000229_24.0419.C23
Gene No.	107547	Strand	-
Start	2624	End	2712
Name	OJ000229_24.0419.C23.o3.tm	Method	TBLASTX:Maize
Start	325	End	646
GI	none	Score	109
Exons	325..426, 327..425, 329..430, 332..433, 425..544, 428..646, 438..632, 445..645		

Seq. No.	50714	Seq. ID	OJ000229_24.0419.C23
Gene No.	107547	Strand	-
Start	2624	End	2712
Name	OJ000229_24.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	1011	End	2465
GI	none	Score	266
Exons	1011..1310, 1019..1177, 1023..1310, 1048..1311, 1299..1406, 1313..1399, 1395..1457, 1404..1457, 2132..2158, 2133..2159, 2151..2465, 2159..2464		

Seq. No.	50714	Seq. ID	OJ000229_24.0419.C23
Gene No.	107547	Strand	-
Start	2624	End	2712
Name	OJ000229_24.0419.C23.o2.tw	Method	TBLASTX:Wheat
Start	1144	End	2195
GI	none	Score	190
Exons	1144..1311, 1146..1310, 1156..1311, 1299..1457, 1299..1454, 1313..1456, 1316..1462, 2131..2190, 2132..2191, 2132..2191, 2133..2195		

Seq. No.	50714	Seq. ID	OJ000229_24.0419.C23
Gene No.	107547	Strand	-
Start	2624	End	2712
Name	OJ000229_24.0419.C23.o2.ts	Method	TBLASTX:Soybean
Start	1162	End	1462

GI	none	Score	148
Exons	1162..1311, 1167..1310, 1306..1383, 1311..1457, 1313..1456, 1316..1462		

Seq. No.	50714	Seq. ID	OJ000229_24.0419.C23
Gene No.	107547	Strand	-
Start	2624	End	2712
Name	OJ000229_24.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	2127	End	2423
GI	none	Score	244
Exons	2127..2285, 2129..2284, 2134..2316, 2288..2326, 2289..2342, 2324..2422, 2325..2423		

Seq. No.	50714	Seq. ID	OJ000229_24.0419.C23
Gene No.	107547	Strand	-
Start	2624	End	2712
Name	OJ000229_24.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	2196	End	2564
GI	none	Score	610
Exons	2196..2564, 2197..2439, 2199..2465, 2207..2563		

Seq. No.	50714	Seq. ID	OJ000229_24.0419.C23
Gene No.	107547	Strand	-
Start	2624	End	2712
Name	OJ000229_24.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	2466	End	2712
GI	none	Score	294
Exons	2466..2675, 2516..2590, 2520..2603, 2604..2711, 2648..2710, 2680..2712		

Seq. No.	50714	Seq. ID	OJ000229_24.0419.C23
Gene No.	107547	Strand	-
Start	2624	End	2712
Name	OJ000229_24.0419.C23.o2.gp	Method	AAT/GAP
Start	2624	End	2712
GI	41176_1.R1084	Score	174
Exons	2624..2712		
GI Descrip.	'2443890 3.0e-28 (AC002294) similar to NAM (gp_X92205_1321924) and CUC2 (gp_AB002560_1944132) proteins [Arabidopsis thaliana]'		

Seq. No.	50715	Seq. ID	OJ000229_24.0419.C24
Gene No.	107548	Strand	+
Start	4344	End	4558
Name	OJ000229_24.0419.C24.o1.gp	Method	AAT/GAP
Start	4344	End	4558
GI	none	Score	360
Exons	4344..4558		

Seq. No.	50715	Seq. ID	OJ000229_24.0419.C24
Gene No.	107549	Strand	-
Start	536	End	3128
Name	OJ000229_24.0419.C24.o1.gs	Method	GENSCAN
Start	536	End	3128
GI	none	Score	.88
Exons	536..628, 731..1007, 1233..1444, 1513..1660, 1742..1869, 2044..2164, 2811..2918, 3060..3128		

Seq. No.	50716	Seq. ID	OJ000229_24.0419.C25
Gene No.	107550	Strand	-
Start	187	End	2189
Name	OJ000229_24.0419.C25.o1.gp	Method	AAT/GAP
Start	187	End	401
GI	none	Score	402
Exons	187..401		

Seq. No.	50716	Seq. ID	OJ000229_24.0419.C25
Gene No.	107550	Strand	-
Start	187	End	2189
Name	OJ000229_24.0419.C25.o1.gs	Method	GENSCAN
Start	187	End	2189
GI	none	Score	.56
Exons	187..569, 1998..2189		

Seq. No.	50716	Seq. ID	OJ000229_24.0419.C25
Gene No.	107550	Strand	-
Start	187	End	2189
Name	OJ000229_24.0419.C25.o1.np	Method	AAT/NAP
Start	314	End	1414
GI	6143886	Score	750
Exons	314..633, 766..867, 901..1414		
GI Descrip.	(AC010718) unknown protein [Arabidopsis thaliana]		

Seq. No.	50716	Seq. ID	OJ000229_24.0419.C25
Gene No.	107550	Strand	-
Start	187	End	2189
Name	OJ000229_24.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	323	End	1075
GI	none	Score	72
Exons	323..451, 347..448, 402..452, 452..481, 453..479, 902..1075		

Seq. No.	50716	Seq. ID	OJ000229_24.0419.C25
Gene No.	107550	Strand	-
Start	187	End	2189
Name	OJ000229_24.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	335	End	1108
GI	none	Score	59
Exons	335..451, 402..473, 452..484, 457..483, 506..655, 899..1108, 908..1102		

Seq. No.	50716	Seq. ID	OJ000229_24.0419.C25
Gene No.	107550	Strand	-
Start	187	End	2189
Name	OJ000229_24.0419.C25.o2.gp	Method	AAT/GAP
Start	444	End	1188
GI	32624_1.R1084	Score	1361
Exons	444..1188		
GI Descrip.	'2980788/emb CAA18164.1 2.0e-15 (AL022197) putative protein [Arabidopsis thaliana]'		

Seq. No.	50716	Seq. ID	OJ000229_24.0419.C25
Gene No.	107550	Strand	-
Start	187	End	2189
Name	OJ000229_24.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	521	End	994

GI	none	Score	155
Exons	521..661, 524..664, 525..674, 605..694, 606..692, 672..959, 672..986, 677..988, 684..755, 686..745, 854..994		
Seq. No.	50717	Seq. ID	OJ000229_24.0419.C27
Gene No.	107551	Strand	-
Start	1	End	424
Name	OJ000229_24.0419.C27.o1.gp	Method	AAT/GAP
Start	1	End	352
GI	15538 1.R1084	Score	550
Exons	1..352		
GI Descrip.	'4581114/gb AAD24604.1 AC005825_11 2.0e-28 (AC005825) putative HesB-like protein;required for efficient nitrogen fixation in Cyanobacteria [Arabidopsis thaliana]'		

Seq. No.	50717	Seq. ID	OJ000229_24.0419.C27
Gene No.	107551	Strand	-
Start	1	End	424
Name	OJ000229_24.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	25	End	151
GI	none	Score	136
Exons	25..135, 25..138, 26..151		

Seq. No.	50717	Seq. ID	OJ000229_24.0419.C27
Gene No.	107551	Strand	-
Start	1	End	424
Name	OJ000229_24.0419.C27.o1.gs	Method	GENSCAN
Start	28	End	424
GI	none	Score	.69
Exons	28..277, 381..424		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107552	Strand	+
Start	4719	End	8106
Name	OJ000229_24.0419.C28.o3.gs	Method	GENSCAN
Start	4719	End	8106
GI	none	Score	.58
Exons	4719..4773, 5822..6257, 7599..7779, 8059..8106		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107552	Strand	+
Start	4719	End	8106
Name	OJ000229_24.0419.C28.o1.np	Method	AAT/NAP
Start	6013	End	8097
GI	6225938	Score	655
Exons	6013..6367, 7599..7779, 8059..8097		
GI Descrip.	RER1A PROTEIN (ATRER1A) gi 2865175 dbj BAA24803 (AB010945) AtRer1A [Arabidopsis thaliana] gi 4914434 emb CAB43637.1 (AL050351) AtRer1A [Arabidopsis thaliana]		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107552	Strand	+
Start	4719	End	8106
Name	OJ000229_24.0419.C28.o1.gp	Method	AAT/GAP
Start	6026	End	7702
GI	LIB3433-014-Q6-K1-A2	Score	638
Exons	6026..6064, 6108..6367, 7599..7702		

GI Descrip. '2865175/dbj|BAA24803| 4.0e-36 (AB010945) AtRer1A [Arabidopsis thaliana] >gi_4914434_emb_CAB43637.1_ (AL050351) AtRer1A [Arabidopsis thaliana]'

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107553	Strand	-
Start	7598	End	8309
Name	OJ000229_24.0419.C28.o2.gp	Method	AAT/GAP
Start	7598	End	8309
GI	15354_1.R1084	Score	723
Exons	7598..7780, 8058..8309		
GI Descrip.	'2865177/dbj BAA24804 1.0e-46 (AB010946) AtRer1B [Arabidopsis thaliana]'		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107554	Strand	-
Start	8941	End	9977
Name	OJ000229_24.0419.C28.o4.gs	Method	GENSCAN
Start	8941	End	9977
GI	none	Score	.82
Exons	8941..9104, 9185..9977		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107555	Strand	-
Start	10555	End	11393
Name	OJ000229_24.0419.C28.o5.gs	Method	GENSCAN
Start	10555	End	11393
GI	none	Score	.57
Exons	10555..10610, 10682..10960, 11324..11393		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107556	Strand	-
Start	13251	End	14566
Name	OJ000229_24.0419.C28.o3.gp	Method	AAT/GAP
Start	13251	End	13790
GI	none	Score	790
Exons	13251..13631, 13749..13790		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107556	Strand	-
Start	13251	End	14566
Name	OJ000229_24.0419.C28.o6.gs	Method	GENSCAN
Start	13468	End	14529
GI	none	Score	.99
Exons	13468..13631, 13749..14529		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107556	Strand	-
Start	13251	End	14566
Name	OJ000229_24.0419.C28.o2.np	Method	AAT/NAP
Start	13471	End	14517
GI	1708421	Score	1041
Exons	13471..13631, 13749..14517		
GI Descrip.	ISOFLAVONE REDUCTASE HOMOLOG IRL gi 1205986 (U33318) sulfur starvation induced isoflavone reductase-like IRL [Zea mays]		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
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Gene No.	107556	Strand	-
Start	13251	End	14566
Name	OJ000229_24.0419.C28.o4.gp	Method	AAT/GAP
Start	14119	End	14566
GI	27194_1.R1084	Score	857
Exons	14119..14566		
GI Descrip.	'1708421/sp P52580 IFRH_MAIZE 1.0e-42 ISOFLAVONE REDUCTASE HOMOLOG IRL >gi_1205986 (U33318) sulfur starvation induced isoflavone reductase-like IRL [Zea mays]'		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o2.tm	Method	TBLASTX:Maize
Start	6056	End	8248
GI	none	Score	71
Exons	6056..6106, 6057..6107, 6084..6200, 6085..6201, 6248..6367, 6249..6371, 7594..7779, 7599..7778, 8141..8209, 8142..8210, 8145..8210, 8146..8238, 8216..8248		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o2.tc	Method	TBLASTX:Cress
Start	6085	End	7779
GI	none	Score	157
Exons	6085..6201, 6249..6272, 6266..6367, 6267..6371, 7594..7779, 7599..7778		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o2.ts	Method	TBLASTX:Soybean
Start	6085	End	7786
GI	none	Score	155
Exons	6085..6201, 6249..6269, 6297..6371, 6320..6367, 7594..7779, 7599..7778, 7673..7786		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	8941	End	14570
GI	none	Score	228
Exons	8941..9012, 9186..9581, 9190..9582, 9648..9950, 9649..9951, 13468..13569, 13564..13638, 13702..14202, 13706..14203, 14206..14511, 14207..14512, 14523..14570		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o3.tm	Method	TBLASTX:Maize
Start	8941	End	13900
GI	none	Score	72
Exons	8941..9030, 8944..9018, 9037..9111, 9163..9321, 9186..9335, 9190..9336, 13468..13557, 13469..13555, 13564..13632, 13564..13638, 13750..13899, 13751..13900		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	8947	End	14508
GI	none	Score	67
Exons	8947..9012, 8953..9120, 9186..9431, 9190..9432, 9441..9587, 9502..9582, 9594..9644, 9648..9962, 9649..9954, 13456..13638, 13460..13633, 13714..13995, 13751..13996, 14005..14202, 14024..14203, 14206..14508, 14207..14506		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	9507	End	14508
GI	none	Score	99
Exons	9507..9578, 9508..9579, 9594..9644, 9648..9947, 9649..9948, 9870..9956, 14071..14202, 14072..14203, 14206..14508, 14207..14506, 14428..14508		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	10345	End	10680
GI	none	Score	94
Exons	10345..10536, 10522..10680, 10623..10679		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o4.tm	Method	TBLASTX:Maize
Start	10362	End	10758
GI	none	Score	229
Exons	10362..10757, 10405..10758		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o7.gs	Method	GENSCAN
Start	16176	End	18405
GI	none	Score	.84
Exons	16176..16189, 16514..16582, 16599..16722, 17800..18405		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o5.gp	Method	AAT/GAP
Start	17712	End	17944
GI	LIB3434-055-P1-K1-C6	Score	436
Exons	17712..17944		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-149 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
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Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o3.np	Method	AAT/NAP
Start	18036	End	19776
GI	3831447	Score	160
Exons	18036..18525, 19640..19776		
GI Descrip.	(AC005819) putative extensin [Arabidopsis thaliana]		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o5.tm	Method	TBLASTX:Maize
Start	18232	End	18485
GI	none	Score	131
Exons	18232..18423, 18296..18421, 18426..18485		

Seq. No.	50718	Seq. ID	OJ000229_24.0419.C28
Gene No.	107557	Strand	-
Start	16176	End	19776
Name	OJ000229_24.0419.C28.o8.gs	Method	GENSCAN
Start	18889	End	19758
GI	none	Score	.6
Exons	18889..19758		

Seq. No.	50719	Seq. ID	OJ000229_24.0419.C29
Gene No.	107558	Strand	+
Start	1	End	2136
Name	OJ000229_24.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	2136
GI	7522209	Score	540
Exons	1..161, 246..386, 1424..1584, 1663..1834, 1976..2136		
GI Descrip.	hypothetical protein T24C20.70 - Arabidopsis thaliana gi 5541725 emb CAB51066.1 (AL096856) putative protein [Arabidopsis thaliana]		

Seq. No.	50719	Seq. ID	OJ000229_24.0419.C29
Gene No.	107558	Strand	+
Start	1	End	2136
Name	OJ000229_24.0419.C29.o1.gs	Method	GENSCAN
Start	246	End	1820
GI	none	Score	.48
Exons	246..386, 1663..1820		

Seq. No.	50720	Seq. ID	OJ000329_10.0418.C1
Gene No.	107559	Strand	+
Start	61	End	3552
Name	OJ000329_10.0418.C1.o1.gs	Method	GENSCAN
Start	61	End	3552
GI	none	Score	.83
Exons	61..169, 836..1040, 2015..2250, 2431..2575, 2817..3552		

Seq. No.	50720	Seq. ID	OJ000329_10.0418.C1
Gene No.	107560	Strand	+
Start	10984	End	11367
Name	OJ000329_10.0418.C1.o1.gp	Method	AAT/GAP
Start	10984	End	11367
GI	3107387	Score	530

Exons 10984..11230, 11321..11367

Seq. No.	50720	Seq. ID	OJ000329_10.0418.C1
Gene No.	107561	Strand	-
Start	1	End	1949
Name	OJ000329_10.0418.C1.o1.np	Method	AAT/NAP
Start	1	End	1949
GI	7523712	Score	150
Exons	1..204, 478..549, 1080..1227, 1835..1949		
GI Descrip.	(AC011001) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50720	Seq. ID	OJ000329_10.0418.C1
Gene No.	107562	Strand	-
Start	4647	End	8271
Name	OJ000329_10.0418.C1.o2.gs	Method	GENSCAN
Start	4647	End	8271
GI	none	Score	.68
Exons	4647..4785, 5364..5412, 5548..5744, 6752..7060, 7632..7665, 7935..8097, 8191..8271		

Seq. No.	50720	Seq. ID	OJ000329_10.0418.C1
Gene No.	107563	Strand	-
Start	8558	End	11324
Name	OJ000329_10.0418.C1.o3.gs	Method	GENSCAN
Start	8558	End	11324
GI	none	Score	.73
Exons	8558..8623, 8749..8958, 9085..9116, 9402..9496, 11161..11324		

Seq. No.	50721	Seq. ID	OJ000329_10.0418.C2
Gene No.	107564	Strand	+
Start	825	End	1011
Name	OJ000329_10.0418.C2.o1.tm	Method	TBLASTX:Maize
Start	756	End	1010
GI	none	Score	72
Exons	756..824, 761..874, 762..854, 766..873, 866..1006, 868..996, 869..1000, 870..1010		

Seq. No.	50721	Seq. ID	OJ000329_10.0418.C2
Gene No.	107564	Strand	+
Start	825	End	1011
Name	OJ000329_10.0418.C2.o1.gp	Method	AAT/GAP
Start	825	End	1011
GI	none	Score	311
Exons	825..1011		

Seq. No.	50722	Seq. ID	OJ000329_10.0418.C3
Gene No.	107565	Strand	+
Start	2	End	2079
Name	OJ000329_10.0418.C3.o1.gs	Method	GENSCAN
Start	2	End	2079
GI	none	Score	.82
Exons	2..69, 1142..1251, 1437..1685, 1792..2079		

Seq. No.	50722	Seq. ID	OJ000329_10.0418.C3
Gene No.	107566	Strand	-
Start	1783	End	2392
Name	OJ000329_10.0418.C3.o1.tm	Method	TBLASTX:Maize

Start	1	End	2332
GI	none	Score	101
Exons	1..72, 5..73, 1107..1193, 1107..1235, 1141..1236, 1142..1300, 1412..1684, 1446..1682, 1488..1688, 1790..1951, 1791..2045, 1816..2001, 1914..2183, 2004..2066, 2009..2158, 2176..2193, 2291..2332		

Seq. No.	50722	Seq. ID	OJ000329_10.0418.C3
Gene No.	107566	Strand	-
Start	1783	End	2392
Name	OJ000329_10.0418.C3.o1.gp	Method	AAT/GAP
Start	1783	End	2392
GI	none	Score	1111
Exons	1783..2392		

Seq. No.	50723	Seq. ID	OJ000329_10.0418.C4
Gene No.	107567	Strand	-
Start	11	End	1412
Name	OJ000329_10.0418.C4.o1.gs	Method	GENSCAN
Start	11	End	1412
GI	none	Score	.48
Exons	11..642, 1358..1412		

Seq. No.	50724	Seq. ID	OJ000329_10.0418.C5
Gene No.	107568	Strand	-
Start	13	End	554
Name	OJ000329_10.0418.C5.o1.gs	Method	GENSCAN
Start	13	End	554
GI	none	Score	.77
Exons	13..333, 437..554		

Seq. No.	50725	Seq. ID	OJ000329_10.0418.C6
Gene No.	107569	Strand	+
Start	191	End	270
Name	OJ000329_10.0418.C6.o1.np	Method	AAT/NAP
Start	191	End	270
GI	7486784	Score	72
Exons	191..270		
GI Descrip.	hypothetical protein M3E9.190 - Arabidopsis thaliana gi 4468104 emb CAA18232.2 (AL022223) hypothetical protein [Arabidopsis thaliana] gi 7269490 emb CAB79493.1 (AL161565) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50725	Seq. ID	OJ000329_10.0418.C6
Gene No.	107570	Strand	-
Start	1003	End	1109
Name	OJ000329_10.0418.C6.o1.gp	Method	AAT/GAP
Start	1003	End	1109
GI	19549_1.R1084	Score	188
Exons	1003..1109		
GI Descrip.	'2668744 7.0e-86 (AF034946) ubiquitin conjugating enzyme [Zea mays]'		

Seq. No.	50726	Seq. ID	OJ000329_10.0418.C7
Gene No.	107571	Strand	-
Start	1	End	282
Name	OJ000329_10.0418.C7.o1.np	Method	AAT/NAP

Start	1	End	282
GI	6714369	Score	247
Exons	1..282		
GI Descrip.	(AC012562) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	50726	Seq. ID	OJ000329_10.0418.C7
Gene No.	107572	Strand	-
Start	1143	End	1577
Name	OJ000329_10.0418.C7.o1.ts	Method	TBLASTX:Soybean
Start	1	End	238
GI	none	Score	81
Exons	1..132, 2..130, 139..234, 140..238		

Seq. No.	50726	Seq. ID	OJ000329_10.0418.C7
Gene No.	107572	Strand	-
Start	1143	End	1577
Name	OJ000329_10.0418.C7.o1.tc	Method	TBLASTX:Cress
Start	4	End	261
GI	none	Score	124
Exons	4..216, 5..214, 67..261		

Seq. No.	50726	Seq. ID	OJ000329_10.0418.C7
Gene No.	107572	Strand	-
Start	1143	End	1577
Name	OJ000329_10.0418.C7.o1.tm	Method	TBLASTX:Maize
Start	97	End	375
GI	none	Score	238
Exons	97..327, 98..313, 100..336, 319..375		

Seq. No.	50726	Seq. ID	OJ000329_10.0418.C7
Gene No.	107572	Strand	-
Start	1143	End	1577
Name	OJ000329_10.0418.C7.o1.gs	Method	GENSCAN
Start	1143	End	1577
GI	none	Score	.75
Exons	1143..1165, 1544..1577		

Seq. No.	50727	Seq. ID	OJ000329_10.0418.C8
Gene No.	107573	Strand	+
Start	465	End	1633
Name	OJ000329_10.0418.C8.o1.gs	Method	GENSCAN
Start	465	End	1633
GI	none	Score	.85
Exons	465..597, 744..893, 1331..1633		

Seq. No.	50728	Seq. ID	OJ000329_10.0418.C11
Gene No.	107574	Strand	-
Start	1133	End	1592
Name	OJ000329_10.0418.C11.o1.tm	Method	TBLASTX:Maize
Start	1111	End	1589
GI	none	Score	114
Exons	1111..1203, 1114..1299, 1116..1304, 1360..1440, 1380..1436, 1380..1484, 1440..1589, 1462..1557		

Seq. No.	50728	Seq. ID	OJ000329_10.0418.C11
Gene No.	107574	Strand	-
Start	1133	End	1592

Name	OJ000329_10.0418.C11.o1.np	Method	AAT/NAP
Start	1133	End	1592
GI	3810596	Score	256
Exons	1133..1592		
GI Descrip.	(AC005398) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	50728	Seq. ID	OJ000329_10.0418.C11
Gene No.	107574	Strand	-
Start	1133	End	1592
Name	OJ000329_10.0418.C11.o1.tw	Method	TBLASTX:Wheat
Start	1360	End	1589
GI	none	Score	68
Exons	1360..1440, 1431..1589, 1462..1569, 1464..1589		

Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o1.gs	Method	GENSCAN
Start	481	End	3273
GI	none	Score	.86
Exons	481..1275, 1459..1890, 1930..3273		

Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o1.np	Method	AAT/NAP
Start	484	End	3310
GI	4680179	Score	4271
Exons	484..3310		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o6.tw	Method	TBLASTX:Wheat
Start	529	End	862
GI	none	Score	75
Exons	529..861, 550..711, 581..862		

Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o1.tm	Method	TBLASTX:Maize
Start	724	End	1309
GI	none	Score	119
Exons	724..1149, 725..922, 745..990, 986..1150, 1147..1308, 1154..1309		

Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o1.tw	Method	TBLASTX:Wheat
Start	862	End	1488
GI	none	Score	44
Exons	862..1488, 863..922, 983..1429		

Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
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Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o3.tm	Method	TBLASTX:Maize
Start	1357	End	1649
GI	none	Score	296
Exons	1357..1647, 1361..1648, 1548..1649		
Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o2.ts	Method	TBLASTX:Soybean
Start	1447	End	1707
GI	none	Score	185
Exons	1447..1707, 1448..1696		
Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o1.tc	Method	TBLASTX:Cress
Start	1471	End	1797
GI	none	Score	87
Exons	1471..1614, 1472..1612, 1615..1797		
Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o2.tw	Method	TBLASTX:Wheat
Start	1494	End	2034
GI	none	Score	126
Exons	1494..1748, 1495..1878, 1495..2034, 1499..1993		
Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o2.tm	Method	TBLASTX:Maize
Start	2062	End	2415
GI	none	Score	202
Exons	2062..2415, 2069..2410		
Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o3.tw	Method	TBLASTX:Wheat
Start	2062	End	2487
GI	none	Score	224
Exons	2062..2412, 2062..2487, 2069..2485		
Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-
Start	481	End	3310
Name	OJ000329_10.0418.C13.o3.ts	Method	TBLASTX:Soybean
Start	2233	End	2481
GI	none	Score	207
Exons	2233..2481		
Seq. No.	50729	Seq. ID	OJ000329_10.0418.C13
Gene No.	107575	Strand	-

Start 481
 Name OJ000329_10.0418.C13.o5.tm
 Start 2422
 GI none
 Exons 2422..2754, 2423..2701

End 3310
 Method TBLASTX:Maize
 End 2754
 Score 145

Seq. No. 50729
 Gene No. 107575
 Start 481
 Name OJ000329_10.0418.C13.o5.tw
 Start 2488
 GI none
 Exons 2488..2751, 2489..2749

Seq. ID OJ000329_10.0418.C13
 Strand -
 End 3310
 Method TBLASTX:Wheat
 End 2751
 Score 255

Seq. No. 50729
 Gene No. 107575
 Start 481
 Name OJ000329_10.0418.C13.o1.ts
 Start 2503
 GI none
 Exons 2503..2754, 2506..2655, 2513..2746, 2719..2844, 2809..2862, 2866..2898, 2867..2896

Seq. ID OJ000329_10.0418.C13
 Strand -
 End 3310
 Method TBLASTX:Soybean
 End 2898
 Score 69

Seq. No. 50729
 Gene No. 107575
 Start 481
 Name OJ000329_10.0418.C13.o4.tm
 Start 2809
 GI none
 Exons 2809..3252, 3014..3256

Seq. ID OJ000329_10.0418.C13
 Strand -
 End 3310
 Method TBLASTX:Maize
 End 3256
 Score 67

Seq. No. 50729
 Gene No. 107575
 Start 481
 Name OJ000329_10.0418.C13.o4.tw
 Start 2839
 GI none
 Exons 2839..3288, 2882..3262, 2890..3297

Seq. ID OJ000329_10.0418.C13
 Strand -
 End 3310
 Method TBLASTX:Wheat
 End 3297
 Score 292

Seq. No. 50729
 Gene No. 107575
 Start 481
 Name OJ000329_10.0418.C13.o4.ts
 Start 2971
 GI none
 Exons 2971..3285

Seq. ID OJ000329_10.0418.C13
 Strand -
 End 3310
 Method TBLASTX:Soybean
 End 3285
 Score 199

Seq. No. 50730
 Gene No. 107576
 Start 1
 Name OJ000329_10.0418.C15.o1.np
 Start 1
 GI 7488595
 Exons 1..74

Seq. ID OJ000329_10.0418.C15
 Strand +
 End 74
 Method AAT/NAP
 End 74
 Score 81

GI Descrip. ubiquitin conjugating enzyme, E2 - wild cabbage (fragment)
 gi|1142614|gb|AAA86089.1| (U17250) ubiquitin conjugating enzyme,
 E2 [Brassica oleracea]

Seq. No.	50730	Seq. ID	OJ000329_10.0418.C15
Gene No.	107577	Strand	-
Start	1	End	67
Name	OJ000329_10.0418.C15.o1.gp	Method	AAT/GAP
Start	1	End	67
GI	19549_1.R1084	Score	115
Exons	1..67		
GI Descrip.	'2668744 7.0e-86 (AF034946) ubiquitin conjugating enzyme [Zea mays]'		

Seq. No.	50731	Seq. ID	OJ000329_10.0418.C17
Gene No.	107578	Strand	-
Start	291	End	364
Name	OJ000329_10.0418.C17.o1.gp	Method	AAT/GAP
Start	291	End	364
GI	58765_1.R1084	Score	106
Exons	291..364		
GI Descrip.	'4895220/gb AAD32806.1 AC007660_7 6.0e-36 (AC007660) unknown protein [Arabidopsis thaliana]'		

Seq. No.	50732	Seq. ID	OJ000329_10.0418.C18
Gene No.	107579	Strand	+
Start	1	End	435
Name	OJ000329_10.0418.C18.o1.np	Method	AAT/NAP
Start	1	End	435
GI	322759	Score	80
Exons	1..435		
GI Descrip.	pistil extensin-like protein (clone pMG14) - common tobacco (fragment) gi 19927 emb CAA78393 (Z14015) pistil extensin like protein [Nicotiana tabacum]		

Seq. No.	50732	Seq. ID	OJ000329_10.0418.C18
Gene No.	107580	Strand	-
Start	257	End	471
Name	OJ000329_10.0418.C18.o1.gs	Method	GENSCAN
Start	257	End	471
GI	none	Score	.76
Exons	257..471		

Seq. No.	50733	Seq. ID	OJ000329_10.0418.C19
Gene No.	107581	Strand	-
Start	10	End	1051
Name	OJ000329_10.0418.C19.o2.tm	Method	TBLASTX:Maize
Start	4	End	228
GI	none	Score	98
Exons	4..228, 10..162, 125..217		

Seq. No.	50733	Seq. ID	OJ000329_10.0418.C19
Gene No.	107581	Strand	-
Start	10	End	1051
Name	OJ000329_10.0418.C19.o1.tc	Method	TBLASTX:Cress
Start	7	End	546
GI	none	Score	115
Exons	7..225, 10..231, 11..226, 316..546, 353..538		

Seq. No.	50733	Seq. ID	OJ000329_10.0418.C19
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Gene No.	107581	Strand	-
Start	10	End	1051
Name	OJ000329_10.0418.C19.o2.ts	Method	TBLASTX:Soybean
Start	7	End	219
GI	none	Score	149
Exons	7..219, 11..217		

Seq. No.	50733	Seq. ID	OJ000329_10.0418.C19
Gene No.	107581	Strand	-
Start	10	End	1051
Name	OJ000329_10.0418.C19.o1.gs	Method	GENSCAN
Start	10	End	951
GI	none	Score	.91
Exons	10..951		

Seq. No.	50733	Seq. ID	OJ000329_10.0418.C19
Gene No.	107581	Strand	-
Start	10	End	1051
Name	OJ000329_10.0418.C19.o1.np	Method	AAT/NAP
Start	13	End	1051
GI	6006885	Score	977
Exons	13..1051		
GI Descrip.	(AC008153) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50733	Seq. ID	OJ000329_10.0418.C19
Gene No.	107581	Strand	-
Start	10	End	1051
Name	OJ000329_10.0418.C19.o1.tm	Method	TBLASTX:Maize
Start	316	End	1045
GI	none	Score	71
Exons	316..1044, 413..532, 697..906, 701..1045, 826..1044, 853..1017, 872..1045		

Seq. No.	50733	Seq. ID	OJ000329_10.0418.C19
Gene No.	107581	Strand	-
Start	10	End	1051
Name	OJ000329_10.0418.C19.o1.ts	Method	TBLASTX:Soybean
Start	316	End	834
GI	none	Score	386
Exons	316..834		

Seq. No.	50733	Seq. ID	OJ000329_10.0418.C19
Gene No.	107581	Strand	-
Start	10	End	1051
Name	OJ000329_10.0418.C19.o2.tc	Method	TBLASTX:Cress
Start	592	End	972
GI	none	Score	130
Exons	592..972, 638..961		

Seq. No.	50733	Seq. ID	OJ000329_10.0418.C19
Gene No.	107581	Strand	-
Start	10	End	1051
Name	OJ000329_10.0418.C19.o1.tw	Method	TBLASTX:Wheat
Start	707	End	1023
GI	none	Score	152
Exons	707..1018, 712..1023		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107582	Strand	+
Start	1790	End	3155
Name	OJ000329_10.0418.C21.o2.gs	Method	GENSCAN
Start	1790	End	3155
GI	none	Score	.66
Exons	1790..1925, 1975..2116, 2772..2812, 3040..3155		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107583	Strand	+
Start	3993	End	4462
Name	OJ000329_10.0418.C21.o3.gs	Method	GENSCAN
Start	3993	End	4462
GI	none	Score	.88
Exons	3993..4046, 4301..4462		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107584	Strand	+
Start	7910	End	8332
Name	OJ000329_10.0418.C21.o4.gs	Method	GENSCAN
Start	7910	End	8332
GI	none	Score	.81
Exons	7910..8332		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107585	Strand	+
Start	8833	End	10499
Name	OJ000329_10.0418.C21.o1.np	Method	AAT/NAP
Start	8833	End	10496
GI	3915095	Score	2083
Exons	8833..9592, 9689..9822, 9899..10496		
GI Descrip.	TRANS-CINNAMATE 4-MONOOXYGENASE (CINNAMIC ACID 4-HYDROXYLASE) (CA4H) (C4H) (P450C4H) (CYTOCHROME P450 73) gi 1526537 dbj BAA13414 (D87520) cytochrome P450 (CYP73A14) [Glycyrrhiza echinata]		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107585	Strand	+
Start	8833	End	10499
Name	OJ000329_10.0418.C21.o5.gs	Method	GENSCAN
Start	8833	End	10499
GI	none	Score	.83
Exons	8833..9255, 9345..9592, 9689..9822, 9907..10499		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107586	Strand	+
Start	13351	End	17089
Name	OJ000329_10.0418.C21.o1.tw	Method	TBLASTX:Wheat
Start	8803	End	9192
GI	none	Score	470
Exons	8803..8961, 8832..9191, 8911..9192		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107586	Strand	+
Start	13351	End	17089
Name	OJ000329_10.0418.C21.o1.tm	Method	TBLASTX:Maize
Start	8884	End	10500

GI	none	Score	148
Exons	8884..8955, 8914..9018, 8952..9260, 9022..9327, 9025..9309, 9339..9602, 9344..9475, 9726..9839, 9731..9769, 9885..9944, 9895..9945, 9948..10166, 9950..10477, 9951..10202, 10260..10487, 10377..10484, 10408..10500		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107586	Strand	+
Start	13351	End	17089
Name	OJ000329_10.0418.C21.o1.ts	Method	TBLASTX:Soybean
Start	8884	End	10502
GI	none	Score	639
Exons	8884..8961, 8911..9327, 8949..9260, 9025..9315, 9134..9241, 9339..9593, 9344..9475, 9687..9722, 9698..9769, 9714..9839, 9885..9944, 9895..9945, 9939..10166, 9951..10202, 10019..10201, 10262..10477, 10263..10502		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107586	Strand	+
Start	13351	End	17089
Name	OJ000329_10.0418.C21.o1.tc	Method	TBLASTX:Cress
Start	8911	End	10490
GI	none	Score	611
Exons	8911..9327, 8952..9260, 9025..9285, 9339..9593, 9344..9409, 9687..9839, 9695..9769, 9885..9944, 9895..9945, 9948..10151, 9951..10202, 10019..10201, 10260..10490, 10262..10477		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107586	Strand	+
Start	13351	End	17089
Name	OJ000329_10.0418.C21.o2.tw	Method	TBLASTX:Wheat
Start	10280	End	10487
GI	none	Score	258
Exons	10280..10468, 10281..10487		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107586	Strand	+
Start	13351	End	17089
Name	OJ000329_10.0418.C21.o2.tc	Method	TBLASTX:Cress
Start	13344	End	13554
GI	none	Score	199
Exons	13344..13490, 13345..13506, 13351..13497, 13495..13554		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107586	Strand	+
Start	13351	End	17089
Name	OJ000329_10.0418.C21.o2.ts	Method	TBLASTX:Soybean
Start	13350	End	13478
GI	none	Score	198
Exons	13350..13478, 13351..13476		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107586	Strand	+
Start	13351	End	17089
Name	OJ000329_10.0418.C21.o2.np	Method	AAT/NAP
Start	13351	End	17089
GI	4895220	Score	831

Exons 13351..13476, 14607..14705, 15245..15396, 15690..15762,
16317..16439, 16688..16802, 16844..17089
GI Descrip. (AC007660) unknown protein [Arabidopsis thaliana]

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107586	Strand	+
Start	13351	End	17089
Name	OJ000329_10.0418.C21.o6.gs	Method	GENSCAN
Start	13351	End	16796
GI	none	Score	.75
Exons	13351..13476, 14644..14705, 15280..15396, 15690..15762, 16317..16439, 16688..16796		

Seq. No.	50734	Seq. ID	OJ000329_10.0418.C21
Gene No.	107586	Strand	+
Start	13351	End	17089
Name	OJ000329_10.0418.C21.o1.gp	Method	AAT/GAP
Start	16728	End	17089
GI	uC-osflcyp078d08b1	Score	111
Exons	16728..16797, 17060..17089		
GI Descrip.	'4895220/gb AAD32806.1 AC007660_7 2.0e-58 (AC007660) unknown protein [Arabidopsis thaliana]'		

Seq. No.	50735	Seq. ID	OJ000329_10.0418.C22
Gene No.	107587	Strand	-
Start	445	End	2604
Name	OJ000329_10.0418.C22.o1.tm	Method	TBLASTX:Maize
Start	441	End	1567
GI	none	Score	171
Exons	441..569, 443..568, 445..570, 446..571, 669..719, 669..719, 833..937, 837..935, 838..936, 1424..1567, 1444..1563		

Seq. No.	50735	Seq. ID	OJ000329_10.0418.C22
Gene No.	107587	Strand	-
Start	445	End	2604
Name	OJ000329_10.0418.C22.o1.ts	Method	TBLASTX:Soybean
Start	441	End	1573
GI	none	Score	140
Exons	441..569, 443..571, 443..568, 669..719, 670..711, 833..937, 1442..1573, 1444..1557		

Seq. No.	50735	Seq. ID	OJ000329_10.0418.C22
Gene No.	107587	Strand	-
Start	445	End	2604
Name	OJ000329_10.0418.C22.o1.gs	Method	GENSCAN
Start	445	End	2604
GI	none	Score	.73
Exons	445..568, 669..719, 836..934, 1444..1499, 1772..1884, 2429..2604		

Seq. No.	50735	Seq. ID	OJ000329_10.0418.C22
Gene No.	107587	Strand	-
Start	445	End	2604
Name	OJ000329_10.0418.C22.o1.np	Method	AAT/NAP
Start	445	End	1554
GI	4803944	Score	266
Exons	445..568, 836..934, 1444..1554		
GI Descrip.	(AC006264) unknown protein [Arabidopsis thaliana]		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107588	Strand	+
Start	1	End	10560
Name	OJ000329_10.0418.C23.o2.np	Method	AAT/NAP
Start	1	End	8587
GI	6063554	Score	159
Exons	1..25, 7025..7270, 8412..8587		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107588	Strand	+
Start	1	End	10560
Name	OJ000329_10.0418.C23.o1.gs	Method	GENSCAN
Start	2590	End	5308
GI	none	Score	.64
Exons	2590..2623, 3550..3650, 4251..4378, 4665..4769, 5165..5308		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107588	Strand	+
Start	1	End	10560
Name	OJ000329_10.0418.C23.o1.gp	Method	AAT/GAP
Start	3572	End	4318
GI	19549_1.R1084	Score	234
Exons	3572..3650, 4251..4318		
GI Descrip.	'2668744 7.0e-86 (AF034946) ubiquitin conjugating enzyme [Zea mays]'		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107588	Strand	+
Start	1	End	10560
Name	OJ000329_10.0418.C23.o1.np	Method	AAT/NAP
Start	3581	End	5305
GI	2668744	Score	714
Exons	3581..3650, 4251..4378, 4665..4769, 5165..5305		
GI Descrip.	(AF034946) ubiquitin conjugating enzyme [Zea mays]		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107588	Strand	+
Start	1	End	10560
Name	OJ000329_10.0418.C23.o2.gp	Method	AAT/GAP
Start	4249	End	4772
GI	19549_1.R1084	Score	372
Exons	4249..4378, 4665..4772		
GI Descrip.	'2668744 7.0e-86 (AF034946) ubiquitin conjugating enzyme [Zea mays]'		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107588	Strand	+
Start	1	End	10560
Name	OJ000329_10.0418.C23.o2.gs	Method	GENSCAN
Start	6768	End	10560
GI	none	Score	.82
Exons	6768..7254, 7260..7447, 9760..10560		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107588	Strand	+
Start	1	End	10560
Name	OJ000329_10.0418.C23.o3.np	Method	AAT/NAP
Start	9760	End	10557
GI	4512231	Score	1320
Exons	9760..10557		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107589	Strand	+
Start	10826	End	11355
Name	OJ000329_10.0418.C23.o3.gs	Method	GENSCAN
Start	10826	End	11292
GI	none	Score	.66
Exons	10826..11169, 11194..11292		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107589	Strand	+
Start	10826	End	11355
Name	OJ000329_10.0418.C23.o4.np	Method	AAT/NAP
Start	10826	End	11355
GI	6983860	Score	879
Exons	10826..11355		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107590	Strand	-
Start	4620	End	5508
Name	OJ000329_10.0418.C23.o2.tw	Method	TBLASTX:Wheat
Start	2470	End	5281
GI	none	Score	137
Exons	2470..2508, 3566..3652, 3571..3651, 3596..3652, 4234..4380, 4245..4379, 4250..4384, 4657..4770, 4662..4775, 4664..4771, 4676..4786, 5164..5280, 5165..5281		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107590	Strand	-
Start	4620	End	5508
Name	OJ000329_10.0418.C23.o1.ts	Method	TBLASTX:Soybean
Start	3533	End	5320
GI	none	Score	128
Exons	3533..3652, 3562..3651, 4225..4341, 4237..4380, 4248..4379, 4250..4384, 4250..4381, 4662..4775, 4662..4748, 4664..4771, 4676..4786, 5164..5307, 5165..5320		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107590	Strand	-
Start	4620	End	5508
Name	OJ000329_10.0418.C23.o1.tm	Method	TBLASTX:Maize
Start	3574	End	5430
GI	none	Score	116
Exons	3574..3651, 3575..3652, 3596..3736, 4248..4379, 4250..4384, 4250..4396, 4662..4775, 4662..4775, 4664..4786, 5164..5310, 5165..5308, 5324..5350, 5355..5429, 5356..5430		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107590	Strand	-
Start	4620	End	5508
Name	OJ000329_10.0418.C23.o2.tc	Method	TBLASTX:Cress
Start	3580	End	4775
GI	none	Score	115
Exons	3580..3651, 3581..3652, 4249..4341, 4250..4384, 4250..4396, 4740..4775		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107590	Strand	-
Start	4620	End	5508
Name	OJ000329_10.0418.C23.o3.gp	Method	AAT/GAP
Start	4620	End	5508
GI	19549_1.R1084	Score	690
Exons	4620..4772, 5168..5508		
GI Descrip.	'2668744 7.0e-86 (AF034946) ubiquitin conjugating enzyme [Zea mays]'		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107590	Strand	-
Start	4620	End	5508
Name	OJ000329_10.0418.C23.o1.tc	Method	TBLASTX:Cress
Start	4664	End	5322
GI	none	Score	110
Exons	4664..4738, 4668..4739, 5162..5308, 5162..5320, 5164..5322, 5227..5322		

Seq. No.	50736	Seq. ID	OJ000329_10.0418.C23
Gene No.	107591	Strand	-
Start	10994	End	11353
Name	OJ000329_10.0418.C23.o1.tw	Method	TBLASTX:Wheat
Start	10994	End	11353
GI	none	Score	275
Exons	10994..11353, 11020..11097, 11033..11344, 11197..11352		

Seq. No.	50737	Seq. ID	OJ000329_10.0418.C24
Gene No.	107592	Strand	+
Start	1200	End	1657
Name	OJ000329_10.0418.C24.o1.np	Method	AAT/NAP
Start	1200	End	1657
GI	7340860	Score	69
Exons	1200..1657		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50738	Seq. ID	OJ000329_10.0418.C25
Gene No.	107593	Strand	+
Start	419	End	501
Name	OJ000329_10.0418.C25.o1.gp	Method	AAT/GAP
Start	419	End	501
GI	19549_1.R1084	Score	119
Exons	419..501		
GI Descrip.	'2668744 7.0e-86 (AF034946) ubiquitin conjugating enzyme [Zea mays]'		

Seq. No.	50738	Seq. ID	OJ000329_10.0418.C25
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Gene No.	107594	Strand	+
Start	428	End	882
Name	OJ000329_10.0418.C25.o1.np	Method	AAT/NAP
Start	428	End	882
GI	6692118	Score	91
Exons	428..523, 846..882		
GI Descrip.	(AC007764) F22C12.2 [Arabidopsis thaliana]		

Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107595	Strand	+
Start	1	End	1194
Name	OJ000329_11.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	1194
GI	6705984	Score	1681
Exons	1..1194		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107596	Strand	+
Start	2347	End	2551
Name	OJ000329_11.0419.C2.o2.np	Method	AAT/NAP
Start	2347	End	2551
GI	4680186	Score	232
Exons	2347..2551		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107597	Strand	+
Start	5042	End	7882
Name	OJ000329_11.0419.C2.o4.np	Method	AAT/NAP
Start	5042	End	7882
GI	6815052	Score	645
Exons	5042..5195, 5277..5347, 5628..5749, 6047..6146, 7011..7103, 7817..7882		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107598	Strand	-
Start	2944	End	4623
Name	OJ000329_11.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	50	End	405
GI	none	Score	106
Exons	50..142, 79..156, 135..404, 136..405		

Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107598	Strand	-
Start	2944	End	4623
Name	OJ000329_11.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	136	End	472
GI	none	Score	424
Exons	136..468, 142..468, 170..472		

Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107598	Strand	-
Start	2944	End	4623
Name	OJ000329_11.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	196	End	540

GI	none	Score	55
Exons	196..252, 271..345, 358..540		
Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107598	Strand	-
Start	2944	End	4623
Name	OJ000329_11.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	217	End	576
GI	none	Score	396
Exons	217..576, 217..567, 222..569		
Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107598	Strand	-
Start	2944	End	4623
Name	OJ000329_11.0419.C2.o3.tm	Method	TBLASTX:Maize
Start	475	End	768
GI	none	Score	187
Exons	475..768, 483..617		
Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107598	Strand	-
Start	2944	End	4623
Name	OJ000329_11.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	607	End	1008
GI	none	Score	444
Exons	607..1005, 607..771, 609..995, 814..1008		
Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107598	Strand	-
Start	2944	End	4623
Name	OJ000329_11.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	923	End	1170
GI	none	Score	61
Exons	923..994, 924..1169, 925..1170		
Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107598	Strand	-
Start	2944	End	4623
Name	OJ000329_11.0419.C2.o3.np	Method	AAT/NAP
Start	2944	End	4623
GI	6907087	Score	704
Exons	2944..3044, 3586..4203, 4250..4623		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107599	Strand	-
Start	7328	End	7822
Name	OJ000329_11.0419.C2.o3.tw	Method	TBLASTX:Wheat
Start	7328	End	7822
GI	none	Score	85
Exons	7328..7507, 7359..7511, 7532..7822		
Seq. No.	50739	Seq. ID	OJ000329_11.0419.C2
Gene No.	107599	Strand	-
Start	7328	End	7822

Name	OJ000329_11.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	7346	End	7723
GI	none	Score	107
Exons	7346..7531, 7526..7720, 7532..7723		

Seq. No.	50740	Seq. ID	OJ000329_11.0419.C3
Gene No.	107600	Strand	+
Start	1	End	1617
Name	OJ000329_11.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1617
GI	6815052	Score	1494
Exons	1..276, 325..1061, 1143..1216, 1498..1617		
GI Descrip..	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	50740	Seq. ID	OJ000329_11.0419.C3
Gene No.	107600	Strand	+
Start	1	End	1617
Name	OJ000329_11.0419.C3.o1.gs	Method	GENSCAN
Start	9	End	1073
GI	none	Score	.74
Exons	9..1073		

Seq. No.	50740	Seq. ID	OJ000329_11.0419.C3
Gene No.	107601	Strand	-
Start	2238	End	3359
Name	OJ000329_11.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	2022	End	2514
GI	none	Score	42
Exons	2022..2072, 2086..2307, 2087..2311, 2109..2501, 2109..2315, 2313..2357, 2383..2514, 2417..2512		

Seq. No.	50740	Seq. ID	OJ000329_11.0419.C3
Gene No.	107601	Strand	-
Start	2238	End	3359
Name	OJ000329_11.0419.C3.o2.gs	Method	GENSCAN
Start	2238	End	3359
GI	none	Score	.61
Exons	2238..2335, 3251..3359		

Seq. No.	50741	Seq. ID	OJ000329_11.0419.C4
Gene No.	107602	Strand	+
Start	271	End	3508
Name	OJ000329_11.0419.C4.o1.gs	Method	GENSCAN
Start	271	End	3508
GI	none	Score	.76
Exons	271..352, 2073..2356, 2437..2572, 2704..2753, 2834..3508		

Seq. No.	50741	Seq. ID	OJ000329_11.0419.C4
Gene No.	107603	Strand	+
Start	5095	End	9544
Name	OJ000329_11.0419.C4.o2.gs	Method	GENSCAN
Start	5095	End	9544
GI	none	Score	.55
Exons	5095..5387, 5599..5650, 5764..6666, 6937..7167, 7197..7739, 7835..8468, 8749..8838, 9393..9544		

Seq. No.	50741	Seq. ID	OJ000329_11.0419.C4
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Gene No.	107604	Strand	-
Start	9787	End	9939
Name	OJ000329_11.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	3928	End	4142
GI	none	Score	52
Exons	3928..3969, 3933..4142, 4006..4134		

Seq. No.	50741	Seq. ID	OJ000329_11.0419.C4
Gene No.	107604	Strand	-
Start	9787	End	9939
Name	OJ000329_11.0419.C4.o3.np	Method	AAT/NAP
Start	9787	End	9939
GI	7489805	Score	116
Exons	9787..9939		
GI Descrip.	polyprotein - maize retrotransposon Cinfu-1 gi 4206306 gb AAD11615.1 (AF049110) prpol [Zea mays]		

Seq. No.	50742	Seq. ID	OJ000329_11.0419.C6
Gene No.	107605	Strand	-
Start	1	End	1860
Name	OJ000329_11.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1860
GI	6705984	Score	1815
Exons	1..1860		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	50742	Seq. ID	OJ000329_11.0419.C6
Gene No.	107605	Strand	-
Start	1	End	1860
Name	OJ000329_11.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	77	End	277
GI	none	Score	99
Exons	77..277, 80..271		

Seq. No.	50742	Seq. ID	OJ000329_11.0419.C6
Gene No.	107605	Strand	-
Start	1	End	1860
Name	OJ000329_11.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	77	End	277
GI	none	Score	99
Exons	77..277, 80..271		

Seq. No.	50742	Seq. ID	OJ000329_11.0419.C6
Gene No.	107605	Strand	-
Start	1	End	1860
Name	OJ000329_11.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	77	End	460
GI	none	Score	113
Exons	77..229, 81..224, 88..243, 242..316, 248..304, 304..459, 308..460		

Seq. No.	50742	Seq. ID	OJ000329_11.0419.C6
Gene No.	107605	Strand	-
Start	1	End	1860
Name	OJ000329_11.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	866	End	1393
GI	none	Score	259

Exons 866..1222, 867..1223, 1080..1223, 1227..1391, 1229..1393, 1229..1393

Seq. No.	50742	Seq. ID	OJ000329_11.0419.C6
Gene No.	107605	Strand	-
Start	1	End	1860
Name	OJ000329_11.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	992	End	1388
GI	none	Score	52
Exons	992..1213, 1005..1151, 1253..1387, 1254..1388		

Seq. No.	50742	Seq. ID	OJ000329_11.0419.C6
Gene No.	107605	Strand	-
Start	1	End	1860
Name	OJ000329_11.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	1196	End	1431
GI	none	Score	168
Exons	1196..1396, 1197..1397, 1207..1422, 1388..1420, 1396..1431		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107606	Strand	+
Start	5562	End	6446
Name	OJ000329_11.0419.C7.o2.gs	Method	GENSCAN
Start	5562	End	6446
GI	none	Score	.62
Exons	5562..5780, 6033..6446		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107607	Strand	+
Start	10956	End	15771
Name	OJ000329_11.0419.C7.o4.gs	Method	GENSCAN
Start	10956	End	15687
GI	none	Score	.68
Exons	10956..11408, 11437..11619, 11712..11922, 12031..12770, 12823..12959, 13298..13778, 13854..14091, 14334..14982, 15048..15687		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107607	Strand	+
Start	10956	End	15771
Name	OJ000329_11.0419.C7.o1.np	Method	AAT/NAP
Start	11934	End	15771
GI	7489805	Score	1643
Exons	11934..12005, 13014..15771		
GI Descrip.	polyprotein - maize retrotransposon Cinfu-1 gi 4206306 gb AAD11615.1 (AF049110) prpol [Zea mays]		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107608	Strand	-
Start	524	End	4014
Name	OJ000329_11.0419.C7.o1.gs	Method	GENSCAN
Start	524	End	4014
GI	none	Score	.78
Exons	524..802, 848..913, 1006..1173, 1258..1356, 1527..1589, 2718..3065, 3086..3271, 3987..4014		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
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Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	1948	End	14180
GI	none	Score	61
Exons	1948..2040, 5128..5469, 5139..5477, 13725..14180, 13760..14179		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	5158	End	14207
GI	none	Score	239
Exons	5158..5487, 5169..5384, 5242..5487, 13853..14206, 13854..14207		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	5500	End	5963
GI	none	Score	63
Exons	5500..5550, 5541..5963, 5544..5783, 5651..5962		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o4.tw	Method	TBLASTX:Wheat
Start	5607	End	14299
GI	none	Score	239
Exons	5607..5969, 5651..5965, 5928..6032, 14243..14299		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	5649	End	6106
GI	none	Score	211
Exons	5649..5927, 5687..5824, 5928..6092, 5963..6106		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	6270	End	14932
GI	none	Score	159
Exons	6270..6407, 6272..6403, 6428..6682, 6429..6671, 14573..14932, 14716..14931		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	6315	End	15006
GI	none	Score	80
Exons	6315..6404, 6450..6713, 14575..14811, 14576..14998, 14833..15006		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
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Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	6902	End	15666
GI	none	Score	200
Exons	6902..7279, 15208..15666, 15333..15527, 15573..15665		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o3.tw	Method	TBLASTX:Wheat
Start	6977	End	15705
GI	none	Score	177
Exons	6977..7279, 7310..7366, 15316..15705, 15360..15623		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o3.gs	Method	GENSCAN
Start	7035	End	9649
GI	none	Score	.45
Exons	7035..7141, 8419..8556, 8614..8770, 9009..9104, 9575..9649		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o3.ts	Method	TBLASTX:Soybean
Start	7052	End	15621
GI	none	Score	227
Exons	7052..7333, 7117..7332, 15394..15621, 15405..15527		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o6.tw	Method	TBLASTX:Wheat
Start	12024	End	12368
GI	none	Score	185
Exons	12024..12368		

Seq. No.	50743	Seq. ID	OJ000329_11.0419.C7
Gene No.	107609	Strand	-
Start	7035	End	15705
Name	OJ000329_11.0419.C7.o5.tw	Method	TBLASTX:Wheat
Start	13161	End	13520
GI	none	Score	88
Exons	13161..13292, 13298..13519, 13299..13520		

Seq. No.	50744	Seq. ID	OJ000329_12.0419.C2
Gene No.	107610	Strand	+
Start	657	End	776
Name	OJ000329_12.0419.C2.o1.gs	Method	GENSCAN
Start	657	End	776
GI	none	Score	.58
Exons	657..776		

Seq. No.	50745	Seq. ID	OJ000329_12.0419.C3
Gene No.	107611	Strand	+

Start 314
Name OJ000329_12.0419.C3.o1.gs
Start 314
GI none
Exons 314..511

End 511
Method GENSCAN
End 511
Score .67

Seq. No. 50746
Gene No. 107612
Start 398
Name OJ000329_12.0419.C4.o1.gs
Start 398
GI none
Exons 398..525

Seq. ID OJ000329_12.0419.C4
Strand -
End 525
Method GENSCAN
End 525
Score .68

Seq. No. 50747
Gene No. 107613
Start 1360
Name OJ000329_12.0419.C6.o2.gs
Start 1360
GI none
Exons 1360..1590, 1661..1736, 1843..1926, 2023..2078, 2596..2652, 2753..2802, 2905..3033, 3136..3286

Seq. ID OJ000329_12.0419.C6
Strand +
End 3286
Method GENSCAN
End 3286
Score .76

Seq. No. 50747
Gene No. 107613
Start 1360
Name OJ000329_12.0419.C6.o2.gp
Start 1424
GI 15545_1.R1084
Exons 1424..1590, 1661..1736, 1843..1926, 2023..2078, 2596..2636
GI Descrip. '6093429/sp|O43709|MTHH_HUMAN 9.0e-34 PUTATIVE METHYLTRANSFERASE
>gi_2911587_emb_CAA11944_ (AJ224442) methyltransferase [Homo sapiens]'

Seq. ID OJ000329_12.0419.C6
Strand +
End 3286
Method AAT/GAP
End 2636
Score 764

Seq. No. 50747
Gene No. 107613
Start 1360
Name OJ000329_12.0419.C6.o2.np
Start 1492
GI 7298980
Exons 1492..1595, 1666..1736, 1843..1926, 2023..2078, 2596..2652, 2753..2802, 2881..3033, 3136..3177
GI Descrip. (AE003677) CG10903 gene product [Drosophila melanogaster]

Seq. ID OJ000329_12.0419.C6
Strand +
End 3286
Method AAT/NAP
End 3177
Score 443

Seq. No. 50747
Gene No. 107614
Start 705
Name OJ000329_12.0419.C6.o1.gp
Start 705
GI 2311784
Exons 705..1018
GI Descrip. 1350977/sp|P49689|RS30_ARATH 5.0e-15 PROBABLE 40S RIBOSOMAL PROTEIN S30

Seq. ID OJ000329_12.0419.C6
Strand -
End 1173
Method AAT/GAP
End 1018
Score 578

Seq. No. 50747
Gene No. 107614
Start 705

Seq. ID OJ000329_12.0419.C6
Strand -
End 1173

Name OJ000329_12.0419.C6.o2.tm
 Start 872
 GI none
 Exons 872..1078, 874..1071

Method TBLASTX:Maize
 End 1078
 Score 293

Seq. No. 50747
 Gene No. 107614
 Start 705
 Name OJ000329_12.0419.C6.o1.gs
 Start 874
 GI none
 Exons 874..1058, 1170..1173

Seq. ID OJ000329_12.0419.C6
 Strand -
 End 1173
 Method GENSCAN
 End 1173
 Score .98

Seq. No. 50747
 Gene No. 107614
 Start 705
 Name OJ000329_12.0419.C6.o1.tc
 Start 874
 GI none
 Exons 874..1068, 875..1069

Seq. ID OJ000329_12.0419.C6
 Strand -
 End 1173
 Method TBLASTX:Cress
 End 1069
 Score 272

Seq. No. 50747
 Gene No. 107614
 Start 705
 Name OJ000329_12.0419.C6.o2.ts
 Start 874
 GI none
 Exons 874..1071, 875..1072

Seq. ID OJ000329_12.0419.C6
 Strand -
 End 1173
 Method TBLASTX:Soybean
 End 1072
 Score 292

Seq. No. 50747
 Gene No. 107614
 Start 705
 Name OJ000329_12.0419.C6.o1.np
 Start 877
 GI 3687243
 Exons 877..1080

Seq. ID OJ000329_12.0419.C6
 Strand -
 End 1173
 Method AAT/NAP
 End 1080
 Score 314

GI Descrip. (AC005169) 40S ribosomal protein S30 [Arabidopsis thaliana]

Seq. No. 50747
 Gene No. 107615
 Start 1488
 Name OJ000329_12.0419.C6.o1.tm
 Start 1488
 GI none
 Exons 1488..1595, 1513..1590, 1532..1600, 1640..1738, 1643..1753, 1666..1749, 1790..1945, 1842..1925, 2013..2078, 2013..2078, 2576..2650, 2593..2652, 2595..2642, 2602..2652, 2720..2812, 2736..2801, 2752..2802, 2879..3031, 2881..3033, 3128..3181, 3129..3206, 3130..3204, 3136..3222, 3167..3232

Seq. ID OJ000329_12.0419.C6
 Strand -
 End 3232
 Method TBLASTX:Maize
 End 3232
 Score 127

Seq. No. 50747
 Gene No. 107615
 Start 1488
 Name OJ000329_12.0419.C6.o1.ts
 Start 1503
 GI none
 Exons 1503..1577, 1510..1596, 1640..1738, 1808..1951, 1842..1925,

Seq. ID OJ000329_12.0419.C6
 Strand -
 End 3232
 Method TBLASTX:Soybean
 End 2932
 Score 110

2013..2078, 2592..2651, 2593..2652, 2593..2652, 2720..2812,
2745..2792, 2746..2820, 2746..2832, 2872..2931, 2879..2932

Seq. No.	50748	Seq. ID	OJ000329_12.0419.C10
Gene No.	107616	Strand	+
Start	1	End	1949
Name	OJ000329_12.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	1915
GI	4337040	Score	586
Exons	1..88, 182..240, 320..428, 901..1019, 1129..1248, 1541..1915		
GI Descrip.	(AF124159) molybdopterin synthase sulphurylase [Arabidopsis thaliana] gi 4337042 gb AAD18051.1 (AF124160) molybdopterin synthase sulphurylase [Arabidopsis thaliana]		

Seq. No.	50748	Seq. ID	OJ000329_12.0419.C10
Gene No.	107616	Strand	+
Start	1	End	1949
Name	OJ000329_12.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	199	End	1929
GI	none	Score	55
Exons	199..240, 317..427, 317..424, 340..429, 897..1022, 899..1024, 1129..1239, 1544..1684, 1615..1686, 1774..1929, 1775..1918		

Seq. No.	50748	Seq. ID	OJ000329_12.0419.C10
Gene No.	107616	Strand	+
Start	1	End	1949
Name	OJ000329_12.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	199	End	1221
GI	none	Score	57
Exons	199..240, 201..239, 307..423, 317..427, 317..427, 897..1022, 899..1051, 1129..1221		

Seq. No.	50748	Seq. ID	OJ000329_12.0419.C10
Gene No.	107616	Strand	+
Start	1	End	1949
Name	OJ000329_12.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	199	End	1666
GI	none	Score	57
Exons	199..240, 296..418, 317..427, 897..1022, 899..1024, 1122..1175, 1129..1239, 1544..1666		

Seq. No.	50748	Seq. ID	OJ000329_12.0419.C10
Gene No.	107616	Strand	+
Start	1	End	1949
Name	OJ000329_12.0419.C10.o1.gs	Method	GENSCAN
Start	202	End	1865
GI	none	Score	.73
Exons	202..240, 320..428, 901..1019, 1063..1248, 1529..1630, 1655..1865		

Seq. No.	50748	Seq. ID	OJ000329_12.0419.C10
Gene No.	107616	Strand	+
Start	1	End	1949
Name	OJ000329_12.0419.C10.o1.gp	Method	AAT/GAP
Start	1096	End	1837
GI	27921_1.R1084	Score	888
Exons	1096..1248, 1529..1837		

GI Descrip. '4337040/gb|AAD18050| 3.0e-26 (AF124159) molybdopterin synthase sulphurylase [Arabidopsis thaliana] >gi_4337042_gb AAD18051_ (AF124160) molybdopterin synthase sulphurylase [Arabidopsis thaliana]'

Seq. No.	50748	Seq. ID	OJ000329_12.0419.C10
Gene No.	107616	Strand	+
Start	1	End	1949
Name	OJ000329_12.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	1637	End	1949
GI	none	Score	57
Exons	1637..1684, 1742..1924, 1781..1948, 1782..1949		

Seq. No.	50749	Seq. ID	OJ000329_12.0419.C16
Gene No.	107617	Strand	-
Start	1	End	1907
Name	OJ000329_12.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	1709
GI	4337044	Score	245
Exons	1..78, 460..523, 609..683, 802..866, 1169..1224, 1460..1511, 1598..1709		

GI Descrip. (AF124161) molybdopterin synthase sulphurylase [Nicotiana plumbaginifolia]

Seq. No.	50749	Seq. ID	OJ000329_12.0419.C16
Gene No.	107617	Strand	-
Start	1	End	1907
Name	OJ000329_12.0419.C16.o1.gs	Method	GENSCAN
Start	141	End	1907
GI	none	Score	.55
Exons	141..400, 806..866, 1169..1224, 1640..1907		

Seq. No.	50749	Seq. ID	OJ000329_12.0419.C16
Gene No.	107617	Strand	-
Start	1	End	1907
Name	OJ000329_12.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	442	End	1694
GI	none	Score	77
Exons	442..522, 445..525, 605..682, 617..682, 719..871, 802..873, 804..881, 1166..1228, 1458..1502, 1459..1500, 1638..1694		

Seq. No.	50749	Seq. ID	OJ000329_12.0419.C16
Gene No.	107617	Strand	-
Start	1	End	1907
Name	OJ000329_12.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	445	End	1694
GI	none	Score	71
Exons	445..525, 458..526, 605..682, 786..860, 801..881, 805..870, 1166..1228, 1638..1694		

Seq. No.	50750	Seq. ID	OJ000329_12.0419.C18
Gene No.	107618	Strand	+
Start	113	End	247
Name	OJ000329_12.0419.C18.o1.gs	Method	GENSCAN
Start	113	End	247
GI	none	Score	.75
Exons	113..247		

Seq. No.	50750	Seq. ID	OJ000329_12.0419.C18
Gene No.	107619	Strand	-
Start	1106	End	1855
Name	OJ000329_12.0419.C18.o2.gs	Method	GENSCAN
Start	1106	End	1779
GI	none	Score	.92
Exons	1106..1148, 1266..1371, 1506..1779		

Seq. No.	50750	Seq. ID	OJ000329_12.0419.C18
Gene No.	107619	Strand	-
Start	1106	End	1855
Name	OJ000329_12.0419.C18.o1.np	Method	AAT/NAP
Start	1109	End	1855
GI	5091504	Score	201
Exons	1109..1148, 1266..1366, 1512..1855		
GI Descrip.	(AB023482) ESTs AU033170(S4339),D41681(S4339) correspond to a region of the predicted gene.; Similar to Pisum sativum mRNA for pIAA4/5.1.(X68215) [Oryza sativa]		

Seq. No.	50750	Seq. ID	OJ000329_12.0419.C18
Gene No.	107619	Strand	-
Start	1106	End	1855
Name	OJ000329_12.0419.C18.o1.gp	Method	AAT/GAP
Start	1636	End	1855
GI	2310970	Score	367
Exons	1636..1855		

Seq. No.	50751	Seq. ID	OJ000329_12.0419.C19
Gene No.	107620	Strand	+
Start	743	End	988
Name	OJ000329_12.0419.C19.o1.gs	Method	GENSCAN
Start	743	End	988
GI	none	Score	.88
Exons	743..988		

Seq. No.	50751	Seq. ID	OJ000329_12.0419.C19
Gene No.	107621	Strand	-
Start	1746	End	2534
Name	OJ000329_12.0419.C19.o2.gs	Method	GENSCAN
Start	1746	End	2534
GI	none	Score	.41
Exons	1746..1946, 2517..2534		

Seq. No.	50752	Seq. ID	OJ000329_12.0419.C20
Gene No.	107622	Strand	-
Start	1	End	903
Name	OJ000329_12.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	903
GI	6498441	Score	1176
Exons	1..651, 825..903		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	50752	Seq. ID	OJ000329_12.0419.C20
Gene No.	107622	Strand	-

Start	1	End	903
Name	OJ000329_12.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	435	End	774
GI	none	Score	52
Exons	435..518, 436..474, 537..761, 544..774		

Seq. No.	50752	Seq. ID	OJ000329_12.0419.C20
Gene No.	107622	Strand	-
Start	1	End	903
Name	OJ000329_12.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	438	End	797
GI	none	Score	69
Exons	438..755, 631..756, 707..796, 717..797		

Seq. No.	50752	Seq. ID	OJ000329_12.0419.C20
Gene No.	107622	Strand	-
Start	1	End	903
Name	OJ000329_12.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	489	End	859
GI	none	Score	121
Exons	489..755, 746..859		

Seq. No.	50753	Seq. ID	OJ000329_12.0419.C22
Gene No.	107623	Strand	+
Start	415	End	555
Name	OJ000329_12.0419.C22.o1.gs	Method	GENSCAN
Start	415	End	555
GI	none	Score	.77
Exons	415..555		

Seq. No.	50754	Seq. ID	OJ000329_12.0419.C26
Gene No.	107624	Strand	-
Start	153	End	2187
Name	OJ000329_12.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	148	End	2187
GI	none	Score	81
Exons	148..267, 150..281, 153..275, 337..525, 347..526, 591..683, 592..681, 763..915, 764..916, 765..920, 765..917, 766..921, 993..1088, 993..1088, 995..1090, 995..1090, 1140..1343, 1163..1318, 1165..1335, 1406..1510, 1418..1495, 1423..1500, 1577..1828, 1588..1824, 1608..1826, 1887..2153, 1893..2063, 1898..2086, 1900..2187, 1903..2169		

Seq. No.	50754	Seq. ID	OJ000329_12.0419.C26
Gene No.	107624	Strand	-
Start	153	End	2187
Name	OJ000329_12.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	148	End	2035
GI	none	Score	91
Exons	148..273, 151..273, 153..275, 153..275, 337..525, 353..514, 591..677, 592..678, 593..682, 593..682, 736..915, 763..915, 765..917, 765..917, 993..1088, 993..1085, 995..1096, 995..1087, 1168..1335, 1168..1335, 1170..1343, 1172..1342, 1397..1495, 1404..1496, 1405..1500, 1421..1510, 1423..1500, 1577..1828, 1608..1826, 1887..2024, 1892..2032, 1893..2033, 1900..2034, 1907..2035		

Seq. No.	50754	Seq. ID	OJ000329_12.0419.C26
Gene No.	107624	Strand	-
Start	153	End	2187
Name	OJ000329_12.0419.C26.o1.gs	Method	GENSCAN
Start	153	End	2166
GI	none	Score	.86
Exons	153..272, 352..516, 594..680, 765..914, 1164..1334, 1423..1499, 1585..1825, 1903..2166		

Seq. No.	50754	Seq. ID	OJ000329_12.0419.C26
Gene No.	107624	Strand	-
Start	153	End	2187
Name	OJ000329_12.0419.C26.o1.np	Method	AAT/NAP
Start	153	End	2186
GI	4151066	Score	1896
Exons	153..272, 352..516, 594..680, 765..914, 995..1087, 1164..1334, 1423..1499, 1585..1825, 1903..2186		

GI Descrip. (Y10861) ribonucleotide reductase [Nicotiana tabacum]

Seq. No.	50754	Seq. ID	OJ000329_12.0419.C26
Gene No.	107624	Strand	-
Start	153	End	2187
Name	OJ000329_12.0419.C26.o2.ts	Method	TBLASTX:Soybean
Start	382	End	801
GI	none	Score	145
Exons	382..525, 383..517, 385..519, 587..700, 591..713, 595..681, 599..700, 766..801		

Seq. No.	50754	Seq. ID	OJ000329_12.0419.C26
Gene No.	107624	Strand	-
Start	153	End	2187
Name	OJ000329_12.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	801	End	1735
GI	none	Score	128
Exons	801..899, 802..888, 885..917, 993..1052, 993..1055, 995..1063, 995..1060, 1052..1090, 1140..1343, 1165..1335, 1167..1337, 1417..1500, 1421..1510, 1422..1499, 1423..1500, 1570..1689, 1577..1735, 1608..1733		

Seq. No.	50755	Seq. ID	OJ000329_12.0419.C27
Gene No.	107625	Strand	+
Start	1	End	1484
Name	OJ000329_12.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	1484
GI	7228457	Score	2429
Exons	1..1484		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	50755	Seq. ID	OJ000329_12.0419.C27
Gene No.	107626	Strand	-
Start	2107	End	3434
Name	OJ000329_12.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	354	End	697
GI	none	Score	354
Exons	354..677, 383..664, 548..697		

Seq. No.	50755	Seq. ID	OJ000329_12.0419.C27
Gene No.	107626	Strand	-
Start	2107	End	3434
Name	OJ000329_12.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	491	End	872
GI	none	Score	356
Exons	491..841, 492..872		

Seq. No.	50755	Seq. ID	OJ000329_12.0419.C27
Gene No.	107626	Strand	-
Start	2107	End	3434
Name	OJ000329_12.0419.C27.o2.tw	Method	TBLASTX:Wheat
Start	873	End	1475
GI	none	Score	265
Exons	873..1157, 878..1162, 1349..1471, 1350..1475		

Seq. No.	50755	Seq. ID	OJ000329_12.0419.C27
Gene No.	107626	Strand	-
Start	2107	End	3434
Name	OJ000329_12.0419.C27.o2.tm	Method	TBLASTX:Maize
Start	1344	End	1487
GI	none	Score	184
Exons	1344..1487, 1349..1483		

Seq. No.	50755	Seq. ID	OJ000329_12.0419.C27
Gene No.	107626	Strand	-
Start	2107	End	3434
Name	OJ000329_12.0419.C27.o2.gs	Method	GENSCAN
Start	2107	End	3387
GI	none	Score	.88
Exons	2107..2466, 2569..3387		

Seq. No.	50755	Seq. ID	OJ000329_12.0419.C27
Gene No.	107626	Strand	-
Start	2107	End	3434
Name	OJ000329_12.0419.C27.o2.np	Method	AAT/NAP
Start	2110	End	3434
GI	6907089	Score	1579
Exons	2110..3434		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	50755	Seq. ID	OJ000329_12.0419.C27
Gene No.	107626	Strand	-
Start	2107	End	3434
Name	OJ000329_12.0419.C27.o3.np	Method	AAT/NAP
Start	2110	End	3434
GI	7228456	Score	1576
Exons	2110..3434		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	50756	Seq. ID	OJ000329_12.0419.C28
Gene No.	107627	Strand	+
Start	288	End	1063
Name	OJ000329_12.0419.C28.o1.gs	Method	GENSCAN
Start	288	End	1063
GI	none	Score	.7

Exons 288..357, 473..502, 858..1063

Seq. No.	50756	Seq. ID	OJ000329_12.0419.C28
Gene No.	107627	Strand	+
Start	288	End	1063
Name	OJ000329_12.0419.C28.o1.np	Method	AAT/NAP
Start	856	End	911
GI	5042454	Score	61
Exons	856..911		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	50757	Seq. ID	OJ000329_12.0419.C29
Gene No.	107628	Strand	-
Start	1	End	792
Name	OJ000329_12.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	792
GI	7228457	Score	1192
Exons	1..493, 557..792		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	50757	Seq. ID	OJ000329_12.0419.C29
Gene No.	107628	Strand	-
Start	1	End	792
Name	OJ000329_12.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	5	End	355
GI	none	Score	68
Exons	5..115, 8..355, 9..320		

Seq. No.	50757	Seq. ID	OJ000329_12.0419.C29
Gene No.	107628	Strand	-
Start	1	End	792
Name	OJ000329_12.0419.C29.o1.tw	Method	TBLASTX:Wheat
Start	23	End	485
GI	none	Score	216
Exons	23..484, 29..484, 30..485		

Seq. No.	50757	Seq. ID	OJ000329_12.0419.C29
Gene No.	107628	Strand	-
Start	1	End	792
Name	OJ000329_12.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	80	End	445
GI	none	Score	117
Exons	80..214, 221..445		

Seq. No.	50757	Seq. ID	OJ000329_12.0419.C29
Gene No.	107628	Strand	-
Start	1	End	792
Name	OJ000329_12.0419.C29.o1.gs	Method	GENSCAN
Start	120	End	781
GI	none	Score	.73
Exons	120..493, 557..781		

Seq. No.	50757	Seq. ID	OJ000329_12.0419.C29
Gene No.	107628	Strand	-
Start	1	End	792

Name	OJ000329_12.0419.C29.o2.tm	Method	TBLASTX:Maize
Start	359	End	527
GI	none	Score	159
Exons	359..523, 360..527		

Seq. No.	50758	Seq. ID	OJ000329_12.0419.C30
Gene No.	107629	Strand	-
Start	1	End	1350
Name	OJ000329_12.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	876
GI	4006880	Score	173
Exons	1..60, 452..517, 662..727, 821..876		
GI Descrip.	(299707) putative protein [Arabidopsis thaliana] gi 7270642 emb CAB80359.1 (AL161590) putative protein [Arabidopsis thaliana]		

Seq. No.	50758	Seq. ID	OJ000329_12.0419.C30
Gene No.	107629	Strand	-
Start	1	End	1350
Name	OJ000329_12.0419.C30.o1.gs	Method	GENSCAN
Start	452	End	1350
GI	none	Score	.82
Exons	452..517, 662..727, 821..919, 1002..1132, 1247..1350		

Seq. No.	50759	Seq. ID	OJ000329_12.0419.C31
Gene No.	107630	Strand	-
Start	1	End	1160
Name	OJ000329_12.0419.C31.o1.gp	Method	AAT/GAP
Start	1	End	843
GI	none	Score	253
Exons	1..65, 762..843		

Seq. No.	50759	Seq. ID	OJ000329_12.0419.C31
Gene No.	107630	Strand	-
Start	1	End	1160
Name	OJ000329_12.0419.C31.o1.gs	Method	GENSCAN
Start	625	End	1160
GI	none	Score	.81
Exons	625..858, 954..1160		

Seq. No.	50760	Seq. ID	OJ000329_12.0419.C32
Gene No.	107631	Strand	+
Start	373	End	1185
Name	OJ000329_12.0419.C32.o1.np	Method	AAT/NAP
Start	373	End	1185
GI	6907088	Score	519
Exons	373..510, 686..922, 1085..1185		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	50760	Seq. ID	OJ000329_12.0419.C32
Gene No.	107631	Strand	+
Start	373	End	1185
Name	OJ000329_12.0419.C32.o2.np	Method	AAT/NAP
Start	1075	End	1185
GI	6069659	Score	131
Exons	1075..1185		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	50761	Seq. ID	OJ000329_12.0419.C36
Gene No.	107632	Strand	-
Start	1	End	914
Name	OJ000329_12.0419.C36.o1.gp	Method	AAT/GAP
Start	1	End	893
GI	30689 1.R1084	Score	660
Exons	1..202, 576..643, 810..893		
GI Descrip.	'3402685 5.0e-31 (AC004697) unknown protein [Arabidopsis thaliana]'		

Seq. No.	50761	Seq. ID	OJ000329_12.0419.C36
Gene No.	107632	Strand	-
Start	1	End	914
Name	OJ000329_12.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	3	End	914
GI	none	Score	152
Exons	3..143, 4..138, 109..207, 144..203, 574..642, 575..646, 812..913, 813..914		

Seq. No.	50761	Seq. ID	OJ000329_12.0419.C36
Gene No.	107632	Strand	-
Start	1	End	914
Name	OJ000329_12.0419.C36.o1.gs	Method	GENSCAN
Start	21	End	202
GI	none	Score	.6
Exons	21..202		

Seq. No.	50762	Seq. ID	OJ000329_12.0419.C37
Gene No.	107633	Strand	+
Start	706	End	867
Name	OJ000329_12.0419.C37.o2.gp	Method	AAT/GAP
Start	706	End	867
GI	1631517	Score	293
Exons	706..867		
GI Descrip.	3928085 8.0e-17 (AC005770) unknown protein [Arabidopsis thaliana]		

Seq. No.	50762	Seq. ID	OJ000329_12.0419.C37
Gene No.	107634	Strand	-
Start	1	End	724
Name	OJ000329_12.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	390
GI	7492013	Score	77
Exons	1..218, 341..390		
GI Descrip.	hypothetical PSU1-like protein - fission yeast (Schizosaccharomyces pombe) gi 2388911 emb CAB11648.1 (Z98974) hypothetical PSU1-like protein [Schizosaccharomyces pombe]		

Seq. No.	50762	Seq. ID	OJ000329_12.0419.C37
Gene No.	107634	Strand	-
Start	1	End	724
Name	OJ000329_12.0419.C37.o1.gp	Method	AAT/GAP
Start	67	End	412
GI	10521 1.R1084	Score	397
Exons	67..218, 341..412		
GI Descrip.	'2388911/emb CAB11648.1 2.0e-36 (Z98974) hypothetical PSU1-like		

protein [Schizosaccharomyces pombe]'

Seq. No.	50762	Seq. ID	OJ000329_12.0419.C37
Gene No.	107634	Strand	-
Start	1	End	724
Name	OJ000329_12.0419.C37.o1.gs	Method	GENSCAN
Start	67	End	724
GI	none	Score	.6
Exons	67..276, 341..416, 614..724		

Seq. No.	50762	Seq. ID	OJ000329_12.0419.C37
Gene No.	107634	Strand	-
Start	1	End	724
Name	OJ000329_12.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	68	End	433
GI	none	Score	165
Exons	68..214, 72..221, 90..203, 124..222, 341..433, 343..432		

Seq. No.	50762	Seq. ID	OJ000329_12.0419.C37
Gene No.	107634	Strand	-
Start	1	End	724
Name	OJ000329_12.0419.C37.o1.ts	Method	TBLASTX:Soybean
Start	68	End	399
GI	none	Score	127
Exons	68..214, 72..221, 93..212, 343..399		

Seq. No.	50762	Seq. ID	OJ000329_12.0419.C37
Gene No.	107634	Strand	-
Start	1	End	724
Name	OJ000329_12.0419.C37.o1.tc	Method	TBLASTX:Cress
Start	71	End	375
GI	none	Score	49
Exons	71..214, 343..375		

Seq. No.	50763	Seq. ID	OJ000329_12.0419.C38
Gene No.	107635	Strand	+
Start	289	End	505
Name	OJ000329_12.0419.C38.o1.gp	Method	AAT/GAP
Start	289	End	505
GI	4714477	Score	383
Exons	289..505		

Seq. No.	50763	Seq. ID	OJ000329_12.0419.C38
Gene No.	107636	Strand	-
Start	499	End	1127
Name	OJ000329_12.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	439	End	1041
GI	none	Score	168
Exons	439..480, 482..634, 486..695, 490..693, 492..695, 863..1039, 873..1040, 874..1041, 877..1041		

Seq. No.	50763	Seq. ID	OJ000329_12.0419.C38
Gene No.	107636	Strand	-
Start	499	End	1127
Name	OJ000329_12.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	496	End	654
GI	none	Score	101

Exons 496..651, 496..654

Seq. No.	50763	Seq. ID	OJ000329_12.0419.C38
Gene No.	107636	Strand	-
Start	499	End	1127
Name	OJ000329_12.0419.C38.o1.np	Method	AAT/NAP
Start	499	End	1127
GI	7430973	Score	324
Exons	499..692, 876..1127		
GI Descrip.	quinone reductase homolog F18E5.200 - Arabidopsis thaliana gi 3080402 emb CAA18722.1 (AL022603) putative NADPH quinone oxidoreductase [Arabidopsis thaliana] gi 4455266 emb CAB36802.1 (AL035527) putative NADPH quinone oxidoreductase [Arabidopsis thaliana] gi 7268955 emb CAB81265.1 (AL161555) putative NADPH quinone oxidoreductase [Arabidopsis thaliana]		

Seq. No.	50763	Seq. ID	OJ000329_12.0419.C38
Gene No.	107636	Strand	-
Start	499	End	1127
Name	OJ000329_12.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	505	End	990
GI	none	Score	101
Exons	505..690, 512..634, 874..990, 875..985		

Seq. No.	50763	Seq. ID	OJ000329_12.0419.C38
Gene No.	107636	Strand	-
Start	499	End	1127
Name	OJ000329_12.0419.C38.o1.gs	Method	GENSCAN
Start	876	End	1053
GI	none	Score	.7
Exons	876..1053		

Seq. No.	50764	Seq. ID	OJ000329_12.0419.C39
Gene No.	107637	Strand	-
Start	1	End	1883
Name	OJ000329_12.0419.C39.o1.np	Method	AAT/NAP
Start	1	End	398
GI	7430973	Score	180
Exons	1..23, 135..398		
GI Descrip.	quinone reductase homolog F18E5.200 - Arabidopsis thaliana gi 3080402 emb CAA18722.1 (AL022603) putative NADPH quinone oxidoreductase [Arabidopsis thaliana] gi 4455266 emb CAB36802.1 (AL035527) putative NADPH quinone oxidoreductase [Arabidopsis thaliana] gi 7268955 emb CAB81265.1 (AL161555) putative NADPH quinone oxidoreductase [Arabidopsis thaliana]		

Seq. No.	50764	Seq. ID	OJ000329_12.0419.C39
Gene No.	107637	Strand	-
Start	1	End	1883
Name	OJ000329_12.0419.C39.o1.tm	Method	TBLASTX:Maize
Start	135	End	440
GI	none	Score	157
Exons	135..290, 136..288, 342..440, 353..439		

Seq. No.	50764	Seq. ID	OJ000329_12.0419.C39
Gene No.	107637	Strand	-
Start	1	End	1883

Name OJ000329_12.0419.C39.o1.gs
 Start 138
 GI none
 Exons 138..573, 1879..1883

Method GENSCAN
 End 1883
 Score .45

Seq. No. 50764
 Gene No. 107637
 Start 1
 Name OJ000329_12.0419.C39.o1.gp
 Start 161
 GI 4715131
 Exons 161..436

Seq. ID OJ000329_12.0419.C39
 Strand -
 End 1883
 Method AAT/GAP
 End 436
 Score 520

Seq. No. 50765
 Gene No. 107638
 Start 82
 Name OJ000329_12.0419.C40.o1.np
 Start 82
 GI 2736075
 Exons 82..247, 861..1545, 1848..2148

Seq. ID OJ000329_12.0419.C40
 Strand +
 End 2209
 Method AAT/NAP
 End 2148
 Score 1105

GI Descrip. (AF016644) PAP-specific phosphatase; HAL2-like protein
 [Arabidopsis thaliana]

Seq. No. 50765
 Gene No. 107638
 Start 82
 Name OJ000329_12.0419.C40.o1.gs
 Start 109
 GI none
 Exons 109..247, 912..1545, 1848..1971, 2106..2209

Seq. ID OJ000329_12.0419.C40
 Strand +
 End 2209
 Method GENSCAN
 End 2209
 Score .46

Seq. No. 50765
 Gene No. 107639
 Start 2041
 Name OJ000329_12.0419.C40.o1.ts
 Start 73
 GI none
 Exons 73..165, 854..1150, 854..1150, 1157..1423, 1158..1418,
 1169..1423, 1421..1483, 1480..1545, 1481..1540, 1842..2012,
 1842..2012, 1849..2013, 1852..2013

Seq. ID OJ000329_12.0419.C40
 Strand -
 End 2347
 Method TBLASTX:Soybean
 End 2013
 Score 76

Seq. No. 50765
 Gene No. 107639
 Start 2041
 Name OJ000329_12.0419.C40.o2.tm
 Start 88
 GI none
 Exons 88..165, 854..1060, 1058..1255, 1081..1254

Seq. ID OJ000329_12.0419.C40
 Strand -
 End 2347
 Method TBLASTX:Maize
 End 1255
 Score 59

Seq. No. 50765
 Gene No. 107639
 Start 2041
 Name OJ000329_12.0419.C40.o1.tc
 Start 106
 GI none
 Exons 106..165, 208..246, 854..1270, 859..1269, 1319..1393,
 1321..1389, 1426..1545, 1433..1546, 1834..2133, 1845..2156,

Seq. ID OJ000329_12.0419.C40
 Strand -
 End 2347
 Method TBLASTX:Cress
 End 2156
 Score 51

1846..2151

Seq. No.	50765	Seq. ID	OJ000329_12.0419.C40
Gene No.	107639	Strand	-
Start	2041	End	2347
Name	OJ000329_12.0419.C40.o1.tw	Method	TBLASTX:Wheat
Start	1058	End	1249
GI	none	Score	223
Exons	1058..1249, 1072..1248		

Seq. No.	50765	Seq. ID	OJ000329_12.0419.C40
Gene No.	107639	Strand	-
Start	2041	End	2347
Name	OJ000329_12.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	1425	End	2166
GI	none	Score	96
Exons	1425..1547, 1426..1545, 1427..1549, 1430..1546, 1437..1547, 1477..1554, 1845..2165, 1846..2157, 1846..2166		

Seq. No.	50765	Seq. ID	OJ000329_12.0419.C40
Gene No.	107639	Strand	-
Start	2041	End	2347
Name	OJ000329_12.0419.C40.o2.ts	Method	TBLASTX:Soybean
Start	2013	End	2151
GI	none	Score	178
Exons	2013..2144, 2014..2151		

Seq. No.	50765	Seq. ID	OJ000329_12.0419.C40
Gene No.	107639	Strand	-
Start	2041	End	2347
Name	OJ000329_12.0419.C40.o1.gp	Method	AAT/GAP
Start	2041	End	2347
GI	none	Score	602
Exons	2041..2347		

Seq. No.	50766	Seq. ID	OJ000329_12.0419.C42
Gene No.	107640	Strand	+
Start	1	End	392
Name	OJ000329_12.0419.C42.o1.gp	Method	AAT/GAP
Start	1	End	392
GI	27050 1.R1084	Score	357
Exons	1..137, 242..392		
GI Descrip.	'1350977/sp P49689 RS30_ARATH 5.0e-15 PROBABLE 40S RIBOSOMAL PROTEIN S30'		

Seq. No.	50766	Seq. ID	OJ000329_12.0419.C42
Gene No.	107640	Strand	+
Start	1	End	392
Name	OJ000329_12.0419.C42.o1.gs	Method	GENSCAN
Start	68	End	383
GI	none	Score	.92
Exons	68..137, 242..383		

Seq. No.	50767	Seq. ID	OJ000329_13.0419.C6
Gene No.	107641	Strand	-
Start	1	End	2244
Name	OJ000329_13.0419.C6.o1.np	Method	AAT/NAP

Start	1	End	2205
GI	7485034	Score	221
Exons	1..32, 496..800, 1839..1941, 1981..2205		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi 2245120 emb CAB10542.1 (Z97343) hypothetical protein [Arabidopsis thaliana] gi 7268514 emb CAB78765.1 (AL161546) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50767	Seq. ID	OJ000329_13.0419.C6
Gene No.	107641	Strand	-
Start	1	End	2244
Name	OJ000329_13.0419.C6.o1.gp	Method	AAT/GAP
Start	207	End	287
GI	6763_1.R1084	Score	118
Exons	207..287		
GI Descrip.	'2245120/emb CAB10542.1 2.0e-57 (Z97343) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	50767	Seq. ID	OJ000329_13.0419.C6
Gene No.	107641	Strand	-
Start	1	End	2244
Name	OJ000329_13.0419.C6.o1.gs	Method	GENSCAN
Start	207	End	2244
GI	none	Score	.65
Exons	207..285, 420..485, 678..800, 1710..1759, 1839..2244		

Seq. No.	50767	Seq. ID	OJ000329_13.0419.C6
Gene No.	107641	Strand	-
Start	1	End	2244
Name	OJ000329_13.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	208	End	694
GI	none	Score	85
Exons	208..285, 420..494, 421..486, 568..657, 569..658, 658..690, 659..694		

Seq. No.	50767	Seq. ID	OJ000329_13.0419.C6
Gene No.	107641	Strand	-
Start	1	End	2244
Name	OJ000329_13.0419.C6.o2.gp	Method	AAT/GAP
Start	1839	End	2022
GI	none	Score	321
Exons	1839..2022		

Seq. No.	50768	Seq. ID	OJ000329_13.0419.C7
Gene No.	107642	Strand	-
Start	272	End	1630
Name	OJ000329_13.0419.C7.o1.gs	Method	GENSCAN
Start	272	End	1630
GI	none	Score	.84
Exons	272..356, 1563..1630		

Seq. No.	50769	Seq. ID	OJ000329_13.0419.C8
Gene No.	107643	Strand	-
Start	166	End	439
Name	OJ000329_13.0419.C8.o1.gs	Method	GENSCAN
Start	166	End	439
GI	none	Score	.43

Exons 166..270, 383..439

Seq. No.	50770	Seq. ID	OJ000329_13.0419.C9
Gene No.	107644	Strand	-
Start	166	End	1617
Name	OJ000329_13.0419.C9.o1.gp	Method	AAT/GAP
Start	166	End	566
GI	60031_1.R1084	Score	770
Exons	166..566		
GI Descrip.	'2335100 5.0e-58 (AC002339) unknown protein [Arabidopsis thaliana]'		

Seq. No.	50770	Seq. ID	OJ000329_13.0419.C9
Gene No.	107644	Strand	-
Start	166	End	1617
Name	OJ000329_13.0419.C9.o1.np	Method	AAT/NAP
Start	166	End	1617
GI	2335100	Score	1800
Exons	166..1617		
GI Descrip.	(AC002339) unknown protein [Arabidopsis thaliana]		

Seq. No.	50770	Seq. ID	OJ000329_13.0419.C9
Gene No.	107644	Strand	-
Start	166	End	1617
Name	OJ000329_13.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	170	End	973
GI	none	Score	1186
Exons	170..973, 172..972		

Seq. No.	50770	Seq. ID	OJ000329_13.0419.C9
Gene No.	107644	Strand	-
Start	166	End	1617
Name	OJ000329_13.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	170	End	499
GI	none	Score	299
Exons	170..499, 172..498, 203..499		

Seq. No.	50770	Seq. ID	OJ000329_13.0419.C9
Gene No.	107644	Strand	-
Start	166	End	1617
Name	OJ000329_13.0419.C9.o2.tc	Method	TBLASTX:Cress
Start	172	End	448
GI	none	Score	264
Exons	172..447, 200..448		

Seq. No.	50770	Seq. ID	OJ000329_13.0419.C9
Gene No.	107644	Strand	-
Start	166	End	1617
Name	OJ000329_13.0419.C9.o2.gp	Method	AAT/GAP
Start	567	End	1000
GI	568365	Score	841
Exons	567..1000		
GI Descrip.	2335100 5.0e-58 (AC002339) unknown protein [Arabidopsis thaliana]		

Seq. No.	50770	Seq. ID	OJ000329_13.0419.C9
Gene No.	107644	Strand	-

Start	166	End	1617
Name	OJ000329_13.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	692	End	1020
GI	none	Score	283
Exons	692..1015, 694..1020, 697..1020		

Seq. No.	50770	Seq. ID	OJ000329_13.0419.C9
Gene No.	107644	Strand	-
Start	166	End	1617
Name	OJ000329_13.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	973	End	1326
GI	none	Score	442
Exons	973..1323, 974..1324, 976..1326		

Seq. No.	50770	Seq. ID	OJ000329_13.0419.C9
Gene No.	107644	Strand	-
Start	166	End	1617
Name	OJ000329_13.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	1053	End	1507
GI	none	Score	60
Exons	1053..1190, 1054..1329, 1054..1506, 1091..1507		

Seq. No.	50770	Seq. ID	OJ000329_13.0419.C9
Gene No.	107644	Strand	-
Start	166	End	1617
Name	OJ000329_13.0419.C9.o3.ts	Method	TBLASTX:Soybean
Start	1111	End	1363
GI	none	Score	106
Exons	1111..1335, 1111..1362, 1115..1363		

Seq. No.	50771	Seq. ID	OJ000329_13.0419.C11
Gene No.	107645	Strand	+
Start	1	End	1200
Name	OJ000329_13.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	1200
GI	3935149	Score	215
Exons	1..89, 641..952, 1022..1200		
GI Descrip.	(AC005106) T25N20.13 [Arabidopsis thaliana]		

Seq. No.	50771	Seq. ID	OJ000329_13.0419.C11
Gene No.	107645	Strand	+
Start	1	End	1200
Name	OJ000329_13.0419.C11.o1.gs	Method	GENSCAN
Start	656	End	1077
GI	none	Score	.97
Exons	656..808, 897..1077		

Seq. No.	50772	Seq. ID	OJ000329_13.0419.C13
Gene No.	107646	Strand	+
Start	186	End	4693
Name	OJ000329_13.0419.C13.o1.gp	Method	AAT/GAP
Start	186	End	2093
GI	8524_1.R1084	Score	884
Exons	186..279, 1056..1106, 1256..1435, 1917..2093		
GI Descrip.	'6006355/dbj AP000559.1 AP000559 3.0e-57 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		

Seq. No.	50772	Seq. ID	OJ000329_13.0419.C13
Gene No.	107646	Strand	+
Start	186	End	4693
Name	OJ000329_13.0419.C13.o1.np	Method	AAT/NAP
Start	190	End	2147
GI	1483213	Score	452
Exons	190..279, 1056..1106, 1256..1435, 1917..2147		
GI Descrip.	(X96480) PAC [Arabidopsis thaliana] gi 5729705 gb AAD48512.1 AC007927_2 (AC006072) pale cress protein [Arabidopsis thaliana]		

Seq. No.	50772	Seq. ID	OJ000329_13.0419.C13
Gene No.	107646	Strand	+
Start	186	End	4693
Name	OJ000329_13.0419.C13.o1.gs	Method	GENSCAN
Start	193	End	4693
GI	none	Score	.42
Exons	193..279, 449..490, 1056..1106, 1917..2146, 3268..3292, 3339..3479, 3523..4114, 4125..4693		

Seq. No.	50772	Seq. ID	OJ000329_13.0419.C13
Gene No.	107647	Strand	-
Start	3573	End	4757
Name	OJ000329_13.0419.C13.o2.np	Method	AAT/NAP
Start	3573	End	4757
GI	6907106	Score	414
Exons	3573..3758, 3832..4025, 4302..4757		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50772	Seq. ID	OJ000329_13.0419.C13
Gene No.	107647	Strand	-
Start	3573	End	4757
Name	OJ000329_13.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	3668	End	4018
GI	none	Score	169
Exons	3668..3715, 3669..3800, 3670..3801, 3670..3717, 3723..3800, 3739..3840, 3756..3809, 3805..3897, 3817..3876, 3817..3963, 3821..3964, 3963..3998, 3964..4014, 3965..4018		

Seq. No.	50773	Seq. ID	OJ000329_13.0419.C14
Gene No.	107648	Strand	-
Start	1344	End	2411
Name	OJ000329_13.0419.C14.o1.gs	Method	GENSCAN
Start	1344	End	2411
GI	none	Score	.98
Exons	1344..1705, 2300..2411		

Seq. No.	50774	Seq. ID	OJ000329_13.0419.C17
Gene No.	107649	Strand	+
Start	1	End	486
Name	OJ000329_13.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	486
GI	7339707	Score	81
Exons	1..254, 336..486		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	50774	Seq. ID	OJ000329_13.0419.C17
Gene No.	107650	Strand	-
Start	1016	End	3069
Name	OJ000329_13.0419.C17.o1.gp	Method	AAT/GAP
Start	1016	End	1452
GI	3767622	Score	815
Exons	1016..1452		

Seq. No.	50774	Seq. ID	OJ000329_13.0419.C17
Gene No.	107650	Strand	-
Start	1016	End	3069
Name	OJ000329_13.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	1089	End	1911
GI	none	Score	46
Exons	1089..1124, 1090..1152, 1108..1164, 1108..1164, 1171..1740, 1174..1500, 1200..1739, 1202..1753, 1224..1757, 1814..1909, 1814..1906, 1828..1911, 1828..1911		

Seq. No.	50774	Seq. ID	OJ000329_13.0419.C17
Gene No.	107650	Strand	-
Start	1016	End	3069
Name	OJ000329_13.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	1261	End	1692
GI	none	Score	84
Exons	1261..1383, 1265..1360, 1441..1623, 1441..1611, 1594..1692		

Seq. No.	50774	Seq. ID	OJ000329_13.0419.C17
Gene No.	107650	Strand	-
Start	1016	End	3069
Name	OJ000329_13.0419.C17.o2.np	Method	AAT/NAP
Start	1264	End	3069
GI	6706413	Score	502
Exons	1264..1737, 1817..1951, 3043..3069		
GI Descrip.	(AL133248) putative protein [Arabidopsis thaliana]		

Seq. No.	50774	Seq. ID	OJ000329_13.0419.C17
Gene No.	107650	Strand	-
Start	1016	End	3069
Name	OJ000329_13.0419.C17.o2.gp	Method	AAT/GAP
Start	1729	End	1943
GI	60031_1.R1084	Score	402
Exons	1729..1943		
GI Descrip.	'2335100 5.0e-58 (AC002339) unknown protein [Arabidopsis thaliana]'		

Seq. No.	50775	Seq. ID	OJ000329_13.0419.C18
Gene No.	107651	Strand	-
Start	1377	End	3117
Name	OJ000329_13.0419.C18.o1.gs	Method	GENSCAN
Start	1377	End	2449
GI	none	Score	.79
Exons	1377..2203, 2365..2449		

Seq. No.	50775	Seq. ID	OJ000329_13.0419.C18
Gene No.	107651	Strand	-
Start	1377	End	3117
Name	OJ000329_13.0419.C18.o1.np	Method	AAT/NAP

Start	1380	End	3117
GI	6006375	Score	2349
Exons	1380..1919, 2204..3117		
GI Descrip.	(AP000559) Similar to ORF3 protein - rice tungro bacilliform virus &RTUORFS_2 (C40785) [Oryza sativa]		

Seq. No.	50776	Seq. ID	OJ000329_13.0419.C19
Gene No.	107652	Strand	-
Start	1	End	770
Name	OJ000329_13.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	770
GI	6671958	Score	248
Exons	1..373, 728..770		
GI Descrip.	(AC013454) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50776	Seq. ID	OJ000329_13.0419.C19
Gene No.	107652	Strand	-
Start	1	End	770
Name	OJ000329_13.0419.C19.o1.gs	Method	GENSCAN
Start	217	End	373
GI	none	Score	.57
Exons	217..373		

Seq. No.	50777	Seq. ID	OJ000329_13.0419.C22
Gene No.	107653	Strand	+
Start	20	End	1946
Name	OJ000329_13.0419.C22.o1.gs	Method	GENSCAN
Start	20	End	1946
GI	none	Score	.45
Exons	20..89, 1231..1358, 1635..1946		

Seq. No.	50778	Seq. ID	OJ000329_13.0419.C24
Gene No.	107654	Strand	-
Start	1	End	2315
Name	OJ000329_13.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	2315
GI	6056194	Score	411
Exons	1..37, 1403..1750, 1790..1994, 2180..2315		
GI Descrip.	(AC009400) unknown protein [Arabidopsis thaliana]		

Seq. No.	50778	Seq. ID	OJ000329_13.0419.C24
Gene No.	107654	Strand	-
Start	1	End	2315
Name	OJ000329_13.0419.C24.o2.gs	Method	GENSCAN
Start	1143	End	2243
GI	none	Score	.84
Exons	1143..1246, 1403..1526, 1589..2022, 2118..2243		

Seq. No.	50778	Seq. ID	OJ000329_13.0419.C24
Gene No.	107654	Strand	-
Start	1	End	2315
Name	OJ000329_13.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	1410	End	1972
GI	none	Score	158
Exons	1410..1544, 1553..1696, 1554..1697, 1796..1870, 1886..1972		

Seq. No.	50778	Seq. ID	OJ000329_13.0419.C24
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Gene No.	107654	Strand	-
Start	1	End	2315
Name	OJ000329_13.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	1410	End	1738
GI	none	Score	69
Exons	1410..1544, 1553..1696, 1568..1657, 1608..1697, 1706..1738		
Seq. No.	50778	Seq. ID	OJ000329_13.0419.C24
Gene No.	107654	Strand	-
Start	1	End	2315
Name	OJ000329_13.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	1410	End	1697
GI	none	Score	55
Exons	1410..1544, 1423..1476, 1553..1696, 1554..1697		
Seq. No.	50778	Seq. ID	OJ000329_13.0419.C24
Gene No.	107654	Strand	-
Start	1	End	2315
Name	OJ000329_13.0419.C24.o1.gp	Method	AAT/GAP
Start	1705	End	2144
GI	LIB3475-004-P1-K2-C10	Score	642
Exons	1705..2022, 2118..2144		
GI Descrip.	'2618699 6.0e-13 (AC002510) unknown protein [Arabidopsis thaliana]'		
Seq. No.	50779	Seq. ID	OJ000329_13.0419.C25
Gene No.	107655	Strand	+
Start	440	End	511
Name	OJ000329_13.0419.C25.o1.gs	Method	GENSCAN
Start	440	End	511
GI	none	Score	.78
Exons	440..511		
Seq. No.	50779	Seq. ID	OJ000329_13.0419.C25
Gene No.	107656	Strand	+
Start	2095	End	4185
Name	OJ000329_13.0419.C25.o2.gs	Method	GENSCAN
Start	2095	End	4185
GI	none	Score	.82
Exons	2095..2265, 3883..4185		
Seq. No.	50779	Seq. ID	OJ000329_13.0419.C25
Gene No.	107657	Strand	-
Start	1	End	231
Name	OJ000329_13.0419.C25.o1.gp	Method	AAT/GAP
Start	1	End	231
GI	4878194	Score	432
Exons	1..231		
Seq. No.	50780	Seq. ID	OJ000329_13.0419.C26
Gene No.	107658	Strand	+
Start	11	End	1423
Name	OJ000329_13.0419.C26.o1.gs	Method	GENSCAN
Start	11	End	1423
GI	none	Score	.59
Exons	11..26, 110..196, 891..950, 1353..1423		

Seq. No.	50780	Seq. ID	OJ000329_13.0419.C26
Gene No.	107659	Strand	+
Start	2456	End	6292
Name	OJ000329_13.0419.C26.o1.np	Method	AAT/NAP
Start	2456	End	5327
GI	6907086	Score	1273
Exons	2456..2726, 3917..4425, 4486..4732, 4964..5327		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	50780	Seq. ID	OJ000329_13.0419.C26
Gene No.	107659	Strand	+
Start	2456	End	6292
Name	OJ000329_13.0419.C26.o2.gs	Method	GENSCAN
Start	3282	End	4400
GI	none	Score	.66
Exons	3282..3383, 3713..3735, 3770..3884, 3909..4400		

Seq. No.	50780	Seq. ID	OJ000329_13.0419.C26
Gene No.	107659	Strand	+
Start	2456	End	6292
Name	OJ000329_13.0419.C26.o3.gs	Method	GENSCAN
Start	5002	End	6292
GI	none	Score	.51
Exons	5002..5104, 5959..6023, 6104..6292		

Seq. No.	50781	Seq. ID	OJ000329_13.0419.C30
Gene No.	107660	Strand	+
Start	282	End	416
Name	OJ000329_13.0419.C30.o1.gs	Method	GENSCAN
Start	282	End	416
GI	none	Score	.56
Exons	282..416		

Seq. No.	50781	Seq. ID	OJ000329_13.0419.C30
Gene No.	107661	Strand	-
Start	1	End	248
Name	OJ000329_13.0419.C30.o1.gp	Method	AAT/GAP
Start	1	End	248
GI	286587	Score	269
Exons	1..57, 132..248		
GI Descrip.	6006355/dbj AP000559.1 AP000559 3.0e-57 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11		

Seq. No.	50781	Seq. ID	OJ000329_13.0419.C30
Gene No.	107662	Strand	-
Start	168	End	711
Name	OJ000329_13.0419.C30.o2.gp	Method	AAT/GAP
Start	168	End	711
GI	21466_1.R1084	Score	968
Exons	168..711		
GI Descrip.	'6006355/dbj AP000559.1 AP000559 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		

Seq. No.	50782	Seq. ID	OJ000329_13.0419.C32
Gene No.	107663	Strand	+
Start	215	End	845
Name	OJ000329_13.0419.C32.o1.gs	Method	GENSCAN

Start 215
GI none
Exons 215..286, 613..820

End 820
Score .82

Seq. No. 50782
Gene No. 107663
Start 215
Name OJ000329_13.0419.C32.o1.ts
Start 613
GI none
Exons 613..741, 615..734, 616..741

Seq. ID OJ000329_13.0419.C32
Strand +
End 845
Method TBLASTX:Soybean
End 741
Score 186

Seq. No. 50782
Gene No. 107663
Start 215
Name OJ000329_13.0419.C32.o1.tc
Start 619
GI none
Exons 619..786, 619..753, 627..758

Seq. ID OJ000329_13.0419.C32
Strand +
End 845
Method TBLASTX:Cress
End 786
Score 190

Seq. No. 50782
Gene No. 107663
Start 215
Name OJ000329_13.0419.C32.o1.np
Start 620
GI 2342683
Exons 620..845
GI Descrip. (AC000106) Contains similarity to Bos beta-mannosidase (gb|U46067). [Arabidopsis thaliana]

Seq. ID OJ000329_13.0419.C32
Strand +
End 845
Method AAT/NAP
End 845
Score 244

Seq. No. 50782
Gene No. 107663
Start 215
Name OJ000329_13.0419.C32.o1.gp
Start 649
GI uC-osroM202018a11b1
Exons 649..845
GI Descrip. '2342683 7.0e-40 (AC000106) Contains similarity to Bos beta-mannosidase (gb_U46067). [Arabidopsis thaliana]'

Seq. ID OJ000329_13.0419.C32
Strand +
End 845
Method AAT/GAP
End 845
Score 338

Seq. No. 50783
Gene No. 107664
Start 655
Name OJ000329_13.0419.C34.o1.gs
Start 655
GI none
Exons 655..787

Seq. ID OJ000329_13.0419.C34
Strand -
End 787
Method GENSCAN
End 787
Score .43

Seq. No. 50784
Gene No. 107665
Start 662
Name OJ000329_13.0419.C41.o1.gs
Start 662
GI none
Exons 662..861, 1092..1129, 1295..1363, 2211..2425

Seq. ID OJ000329_13.0419.C41
Strand +
End 2425
Method GENSCAN
End 2425
Score .57

Seq. No. 50784 Seq. ID OJ000329_13.0419.C41

Gene No.	107665	Strand	+
Start	662	End	2425
Name	OJ000329_13.0419.C41.ol.np	Method	AAT/NAP
Start	731	End	2416
GI	7329701	Score	327
Exons	731..903, 1095..1205, 1295..1383, 1639..1691, 1789..1819, 1902..1983, 2211..2416		
GI Descrip.	(AL162295) putative protein [Arabidopsis thaliana]		

Seq. No.	50784	Seq. ID	OJ000329_13.0419.C41
Gene No.	107666	Strand	-
Start	367	End	446
Name	OJ000329_13.0419.C41.ol.gp	Method	AAT/GAP
Start	367	End	446
GI	LIB3477-003-P1-K1-E9	Score	104
Exons	367..446		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	50784	Seq. ID	OJ000329_13.0419.C41
Gene No.	107667	Strand	
Start	677	End	2359
Name	OJ000329_13.0419.C41.ol.tc	Method	TBLASTX:Cress
Start	677	End	1389
GI	none	Score	63
Exons	677..724, 779..874, 1088..1201, 1100..1201, 1288..1368, 1300..1389		

Seq. No.	50784	Seq. ID	OJ000329_13.0419.C41
Gene No.	107667	Strand	
Start	677	End	2359
Name	OJ000329_13.0419.C41.ol.ts	Method	TBLASTX:Soybean
Start	677	End	2359
GI	none	Score	65
Exons	677..724, 779..874, 1088..1201, 1300..1371, 1639..1698, 1784..1822, 2267..2359		

Seq. No.	50785	Seq. ID	OJ000329_13.0419.C42
Gene No.	107668	Strand	+
Start	1	End	1314
Name	OJ000329_13.0419.C42.ol.gp	Method	AAT/GAP
Start	1	End	1054
GI	236_1.R1084	Score	547
Exons	1..67, 133..241, 929..1054		
GI Descrip.	'266410/sp P29620 KC47_ORYSA 0.0e+00 CDC2+/CDC28-RELATED PROTEIN KINASE R2 >gi_82507_pir_S13934 protein kinase (EC 2.7.1.37) chain cdc2/cdc28 homolog - rice >gi_20194_emb_CAA41172_ (X58194) cdc2+/CDC28-related protein kinase [Oryza sativa]'		

Seq. No.	50785	Seq. ID	OJ000329_13.0419.C42
Gene No.	107668	Strand	+
Start	1	End	1314
Name	OJ000329_13.0419.C42.ol.np	Method	AAT/NAP
Start	1	End	1314
GI	266410	Score	448
Exons	1..67, 133..241, 929..1055, 1279..1314		

GI Descrip. CDC2+/CDC28-RELATED PROTEIN KINASE R2 gi|82507|pir||S13934
protein kinase (EC 2.7.1.37) chain cdc2/cdc28 homolog - rice
gi|20194|emb|CAA41172.1| (X58194) cdc2+/CDC28-related protein
kinase [Oryza sativa]

Seq. No.	50785	Seq. ID	OJ000329_13.0419.C42
Gene No.	107668	Strand	+
Start	1	End	1314
Name	OJ000329_13.0419.C42.o1.tc	Method	TBLASTX:Cress
Start	3	End	244
GI	none	Score	104
Exons	3..68, 5..70, 5..79, 130..240, 131..241, 131..244		

Seq. No.	50786	Seq. ID	OJ000329_13.0419.C45
Gene No.	107669	Strand	+
Start	1	End	637
Name	OJ000329_13.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	365
GI	6735317	Score	203
Exons	1..365		
GI Descrip.	(AL137080) putative protein [Arabidopsis thaliana]		

Seq. No.	50786	Seq. ID	OJ000329_13.0419.C45
Gene No.	107669	Strand	+
Start	1	End	637
Name	OJ000329_13.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	20	End	293
GI	none	Score	58
Exons	20..70, 58..171, 84..170, 192..293, 215..286		

Seq. No.	50786	Seq. ID	OJ000329_13.0419.C45
Gene No.	107669	Strand	+
Start	1	End	637
Name	OJ000329_13.0419.C45.o1.gs	Method	GENSCAN
Start	47	End	370
GI	none	Score	.72
Exons	47..185, 209..370		

Seq. No.	50786	Seq. ID	OJ000329_13.0419.C45
Gene No.	107669	Strand	+
Start	1	End	637
Name	OJ000329_13.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	195	End	637
GI	none	Score	206
Exons	195..320, 197..319, 268..321, 560..580, 578..637		

Seq. No.	50787	Seq. ID	OJ000329_13.0419.C46
Gene No.	107670	Strand	-
Start	251	End	839
Name	OJ000329_13.0419.C46.o1.np	Method	AAT/NAP
Start	251	End	839
GI	6671958	Score	193
Exons	251..325, 414..482, 547..618, 704..839		
GI Descrip.	(AC013454) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50787	Seq. ID	OJ000329_13.0419.C46
Gene No.	107670	Strand	-

Start 251
 Name OJ000329_13.0419.C46.o1.gs
 Start 254
 GI none
 Exons 254..325, 547..618, 704..839

End 839
 Method GENSCAN
 End 839
 Score .51

Seq. No. 50788
 Gene No. 107671
 Start 246
 Name OJ000329_13.0419.C47.o1.gs
 Start 246
 GI none
 Exons 246..459, 636..747

Seq. ID OJ000329_13.0419.C47
 Strand +
 End 747
 Method GENSCAN
 End 747
 Score .54

Seq. No. 50789
 Gene No. 107672
 Start 1497
 Name OJ000329_13.0419.C48.o1.gp
 Start 1497
 GI none
 Exons 1497..1777

Seq. ID OJ000329_13.0419.C48
 Strand +
 End 1777
 Method AAT/GAP
 End 1777
 Score 558

Seq. No. 50789
 Gene No. 107673
 Start 1791
 Name OJ000329_13.0419.C48.o1.gs
 Start 1791
 GI none
 Exons 1791..1945, 3505..3613

Seq. ID OJ000329_13.0419.C48
 Strand +
 End 3772
 Method GENSCAN
 End 3613
 Score .86

Seq. No. 50789
 Gene No. 107673
 Start 1791
 Name OJ000329_13.0419.C48.o1.np
 Start 1800
 GI 6729039
 Exons 1800..1945, 3382..3613, 3704..3772
 GI Descrip. (AC009177) unknown protein [Arabidopsis thaliana]

Seq. ID OJ000329_13.0419.C48
 Strand +
 End 3772
 Method AAT/NAP
 End 3772
 Score 493

Seq. No. 50789
 Gene No. 107673
 Start 1791
 Name OJ000329_13.0419.C48.o1.tm
 Start 1806
 GI none
 Exons 1806..1871, 1812..1946, 1817..1948, 3380..3571, 3380..3568, 3529..3570, 3686..3772, 3701..3772

Seq. ID OJ000329_13.0419.C48
 Strand +
 End 3772
 Method TBLASTX:Maize
 End 3772
 Score 206

Seq. No. 50789
 Gene No. 107673
 Start 1791
 Name OJ000329_13.0419.C48.o1.tw
 Start 1806
 GI none
 Exons 1806..1871, 1812..1946, 1817..1948, 3379..3486, 3380..3544, 3380..3544

Seq. ID OJ000329_13.0419.C48
 Strand +
 End 3772
 Method TBLASTX:Wheat
 End 3544
 Score 204

Seq. No.	50789	Seq. ID	OJ000329_13.0419.C48
Gene No.	107673	Strand	+
Start	1791	End	3772
Name	OJ000329_13.0419.C48.o1.tc	Method	TBLASTX:Cress
Start	1815	End	3732
GI	none	Score	150
Exons	1815..1925, 3379..3480, 3379..3570, 3380..3571, 3700..3732, 3701..3730		

Seq. No.	50789	Seq. ID	OJ000329_13.0419.C48
Gene No.	107673	Strand	+
Start	1791	End	3772
Name	OJ000329_13.0419.C48.o1.ts	Method	TBLASTX:Soybean
Start	1815	End	3772
GI	none	Score	151
Exons	1815..1922, 3380..3571, 3442..3567, 3700..3771, 3701..3772		

Seq. No.	50789	Seq. ID	OJ000329_13.0419.C48
Gene No.	107673	Strand	+
Start	1791	End	3772
Name	OJ000329_13.0419.C48.o2.gp	Method	AAT/GAP
Start	2538	End	3079
GI	none	Score	1076
Exons	2538..3079		

Seq. No.	50790	Seq. ID	OJ000309_13.0419.C2
Gene No.	107674	Strand	-
Start	477	End	4644
Name	OJ000309_13.0419.C2.o1.np	Method	AAT/NAP
Start	477	End	4644
GI	1174613	Score	725
Exons	477..700, 813..932, 1814..1901, 2396..2517, 2830..3093, 3257..3379, 4430..4644		
GI Descrip.	26S PROTEASE REGULATORY SUBUNIT 6A HOMOLOG (TAT-BINDING PROTEIN HOMOLOG 1) (TBP-1) gi 556560 dbj BAA04614.1 (D17788) rice homologue of Tat binding protein [Oryza sativa]		

Seq. No.	50790	Seq. ID	OJ000309_13.0419.C2
Gene No.	107674	Strand	-
Start	477	End	4644
Name	OJ000309_13.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	558	End	3380
GI	none	Score	139
Exons	558..707, 560..700, 813..935, 817..933, 1797..1895, 1811..1894, 2387..2524, 2398..2523, 2400..2525, 2818..3021, 2840..2977, 2858..3022, 2920..3021, 3254..3310, 3258..3311, 3296..3364, 3303..3380		

Seq. No.	50790	Seq. ID	OJ000309_13.0419.C2
Gene No.	107674	Strand	-
Start	477	End	4644
Name	OJ000309_13.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	558	End	3380
GI	none	Score	154
Exons	558..734, 559..675, 560..700, 813..935, 817..933, 819..935, 1797..1895, 1811..1894, 2387..2524, 2398..2523, 2818..3021, 2840..2980, 3254..3310, 3258..3311, 3296..3364, 3303..3380		

Seq. No.	50790	Seq. ID	OJ000309_13.0419.C2
Gene No.	107674	Strand	-
Start	477	End	4644
Name	OJ000309_13.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	558	End	3380
GI	none	Score	170
Exons	558..707, 560..700, 813..935, 817..933, 1797..1895, 1811..1894, 2387..2524, 2398..2523, 2818..3021, 2832..2969, 2833..3063, 3254..3310, 3258..3317, 3296..3364, 3303..3380, 3303..3380		

Seq. No.	50790	Seq. ID	OJ000309_13.0419.C2
Gene No.	107674	Strand	-
Start	477	End	4644
Name	OJ000309_13.0419.C2.o1.gs	Method	GENSCAN
Start	560	End	4210
GI	none	Score	.57
Exons	560..700, 828..932, 1814..1892, 2396..2514, 2827..3018, 3257..3376, 4154..4210		

Seq. No.	50790	Seq. ID	OJ000309_13.0419.C2
Gene No.	107674	Strand	-
Start	477	End	4644
Name	OJ000309_13.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	1810	End	2524
GI	none	Score	61
Exons	1810..1893, 1811..1894, 1811..1894, 1812..1895, 1813..1905, 2387..2524, 2398..2523		

Seq. No.	50790	Seq. ID	OJ000309_13.0419.C2
Gene No.	107674	Strand	-
Start	477	End	4644
Name	OJ000309_13.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	2833	End	3021
GI	none	Score	113
Exons	2833..3021, 2843..2956		

Seq. No.	50791	Seq. ID	OJ000309_13.0419.C5
Gene No.	107675	Strand	+
Start	88	End	260
Name	OJ000309_13.0419.C5.o1.gp	Method	AAT/GAP
Start	88	End	260
GI	LIB3433-026-P1-K1-C1	Score	239
Exons	88..260		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	50791	Seq. ID	OJ000309_13.0419.C5
Gene No.	107676	Strand	+
Start	882	End	1673
Name	OJ000309_13.0419.C5.o1.np	Method	AAT/NAP
Start	882	End	1670
GI	6983861	Score	1337
Exons	882..1670		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		

Seq. No. 50791
 Gene No. 107676
 Start 882
 Name OJ000309_13.0419.C5.o1.gs
 Start 1068
 GI none
 Exons 1068..1673

Seq. ID OJ000309_13.0419.C5
 Strand +
 End 1673
 Method GENSCAN
 End 1673
 Score .92

Seq. No. 50791
 Gene No. 107677
 Start 1942
 Name OJ000309_13.0419.C5.o2.gs
 Start 1942
 GI none
 Exons 1942..3037

Seq. ID OJ000309_13.0419.C5
 Strand +
 End 3137
 Method GENSCAN
 End 3037
 Score .95

Seq. No. 50791
 Gene No. 107677
 Start 1942
 Name OJ000309_13.0419.C5.o2.np
 Start 1942
 GI 6983860
 Exons 1942..3137

Seq. ID OJ000309_13.0419.C5
 Strand +
 End 3137
 Method AAT/NAP
 End 3137
 Score 1900

GI Descrip. (AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type
 (AF061282) [Oryza sativa]

Seq. No. 50791
 Gene No. 107677
 Start 1942
 Name OJ000309_13.0419.C5.o2.tw
 Start 2103
 GI none
 Exons 2103..2300, 2104..2301, 2771..2815

Seq. ID OJ000309_13.0419.C5
 Strand +
 End 3137
 Method TBLASTX:Wheat
 End 2815
 Score 211

Seq. No. 50791
 Gene No. 107677
 Start 1942
 Name OJ000309_13.0419.C5.o1.tm
 Start 2353
 GI none
 Exons 2353..2658

Seq. ID OJ000309_13.0419.C5
 Strand +
 End 3137
 Method TBLASTX:Maize
 End 2658
 Score 240

Seq. No. 50791
 Gene No. 107677
 Start 1942
 Name OJ000309_13.0419.C5.o1.tw
 Start 2353
 GI none
 Exons 2353..2703

Seq. ID OJ000309_13.0419.C5
 Strand +
 End 3137
 Method TBLASTX:Wheat
 End 2703
 Score 306

Seq. No. 50791
 Gene No. 107677
 Start 1942
 Name OJ000309_13.0419.C5.o3.tw
 Start 2869
 GI none
 Exons 2869..2991, 2883..2924, 2977..3120, 3036..3119

Seq. ID OJ000309_13.0419.C5
 Strand +
 End 3137
 Method TBLASTX:Wheat
 End 3120
 Score 78

Seq. No.	50792	Seq. ID	OJ000309_13.0419.C6
Gene No.	107678	Strand	+
Start	1	End	3103
Name	OJ000309_13.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	3100
GI	4680179	Score	4549
Exons	1..3100		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	50792	Seq. ID	OJ000309_13.0419.C6
Gene No.	107678	Strand	+
Start	1	End	3103
Name	OJ000309_13.0419.C6.o1.gs	Method	GENSCAN
Start	35	End	3103
GI	none	Score	1
Exons	35..3103		

Seq. No.	50792	Seq. ID	OJ000309_13.0419.C6
Gene No.	107678	Strand	+
Start	1	End	3103
Name	OJ000309_13.0419.C6.o6.tm	Method	TBLASTX:Maize
Start	134	End	327
GI	none	Score	188
Exons	134..325, 172..327		

Seq. No.	50792	Seq. ID	OJ000309_13.0419.C6
Gene No.	107678	Strand	+
Start	1	End	3103
Name	OJ000309_13.0419.C6.o4.tw	Method	TBLASTX:Wheat
Start	262	End	745
GI	none	Score	531
Exons	262..702, 263..745, 266..742		

Seq. No.	50792	Seq. ID	OJ000309_13.0419.C6
Gene No.	107678	Strand	+
Start	1	End	3103
Name	OJ000309_13.0419.C6.o4.ts	Method	TBLASTX:Soybean
Start	299	End	613
GI	none	Score	198
Exons	299..613		

Seq. No.	50792	Seq. ID	OJ000309_13.0419.C6
Gene No.	107678	Strand	+
Start	1	End	3103
Name	OJ000309_13.0419.C6.o4.tm	Method	TBLASTX:Maize
Start	328	End	775
GI	none	Score	369
Exons	328..762, 332..775		

Seq. No.	50792	Seq. ID	OJ000309_13.0419.C6
Gene No.	107678	Strand	+
Start	1	End	3103
Name	OJ000309_13.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	686	End	1081
GI	none	Score	57
Exons	686..718, 686..718, 722..775, 724..762, 830..1081, 838..1071		

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o5.tm
 Start 830
 GI none
 Exons 830..1162, 883..1161

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Maize
 End 1162
 Score 310

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o5.tw
 Start 833
 GI none
 Exons 833..1096, 835..1095

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Wheat
 End 1096
 Score 373

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o3.tw
 Start 1097
 GI none
 Exons 1097..1522, 1099..1515

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Wheat
 End 1522
 Score 595

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o3.ts
 Start 1103
 GI none
 Exons 1103..1351

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Soybean
 End 1351
 Score 202

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o2.tm
 Start 1169
 GI none
 Exons 1169..1522, 1169..1507, 1174..1515

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Maize
 End 1522
 Score 459

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o2.tw
 Start 1550
 GI none
 Exons 1550..2089, 1732..1782, 1834..2085, 1836..2090

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Wheat
 End 2090
 Score 619

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o1.tc
 Start 1787
 GI none
 Exons 1787..1969, 1970..2113, 1972..2112

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Cress
 End 2113
 Score 90

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o2.ts
 Start 1877
 GI none
 Exons 1877..2137, 1888..2136

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Soybean
 End 2137
 Score 304

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o3.tm
 Start 1936
 GI none
 Exons 1936..2223, 1937..2227

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Maize
 End 2227
 Score 411

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o1.tw
 Start 2096
 GI none
 Exons 2096..2722, 2099..2443, 2155..2604, 2662..2721

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Wheat
 End 2722
 Score 724

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o1.tm
 Start 2275
 GI none
 Exons 2275..2430, 2276..2437, 2296..2439, 2434..2607, 2435..2860, 2552..2839, 2662..2859

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Maize
 End 2860
 Score 229

Seq. No. 50792
 Gene No. 107678
 Start 1
 Name OJ000309_13.0419.C6.o6.tw
 Start 2722
 GI none
 Exons 2722..3003, 2723..3055

Seq. ID OJ000309_13.0419.C6
 Strand +
 End 3103
 Method TBLASTX:Wheat
 End 3055
 Score 313

Seq. No. 50793
 Gene No. 107679
 Start 5440
 Name OJ000309_13.0419.C7.o3.gs
 Start 5440
 GI none
 Exons 5440..5624, 5829..6082, 6344..6576

Seq. ID OJ000309_13.0419.C7
 Strand +
 End 8772
 Method GENSCAN
 End 6576
 Score .65

Seq. No. 50793
 Gene No. 107679
 Start 5440
 Name OJ000309_13.0419.C7.o1.np
 Start 5596
 GI 4680203
 Exons 5596..6578, 8699..8772

Seq. ID OJ000309_13.0419.C7
 Strand +
 End 8772
 Method AAT/NAP
 End 8772
 Score 769

GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. No.	50793	Seq. ID	OJ000309_13.0419.C7
Gene No.	107680	Strand	-
Start	224	End	1815
Name	OJ000309_13.0419.C7.o1.gs	Method	GENSCAN
Start	224	End	1815
GI	none	Score	.55
Exons	224..459, 637..721, 1160..1312, 1617..1654, 1725..1815		

Seq. No.	50793	Seq. ID	OJ000309_13.0419.C7
Gene No.	107681	Strand	-
Start	2384	End	3335
Name	OJ000309_13.0419.C7.o2.gs	Method	GENSCAN
Start	2384	End	3335
GI	none	Score	.8
Exons	2384..3023, 3046..3335		

Seq. No.	50793	Seq. ID	OJ000309_13.0419.C7
Gene No.	107682	Strand	-
Start	8109	End	8726
Name	OJ000309_13.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	5593	End	6177
GI	none	Score	217
Exons	5593..5883, 5649..5906, 5799..5888, 5932..6051, 5934..6038, 5938..6057, 5957..6058, 6049..6177		

Seq. No.	50793	Seq. ID	OJ000309_13.0419.C7
Gene No.	107682	Strand	-
Start	8109	End	8726
Name	OJ000309_13.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	5605	End	5888
GI	none	Score	287
Exons	5605..5883, 5628..5888		

Seq. No.	50793	Seq. ID	OJ000309_13.0419.C7
Gene No.	107682	Strand	-
Start	8109	End	8726
Name	OJ000309_13.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	5920	End	6273
GI	none	Score	275
Exons	5920..6273, 6007..6177, 6015..6218		

Seq. No.	50793	Seq. ID	OJ000309_13.0419.C7
Gene No.	107682	Strand	-
Start	8109	End	8726
Name	OJ000309_13.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	5952	End	6192
GI	none	Score	197
Exons	5952..6173, 5953..6192, 5953..6183		

Seq. No.	50793	Seq. ID	OJ000309_13.0419.C7
Gene No.	107682	Strand	-
Start	8109	End	8726
Name	OJ000309_13.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	6015	End	6252
GI	none	Score	252
Exons	6015..6236, 6046..6252, 6049..6252		

Seq. No.	50793	Seq. ID	OJ000309_13.0419.C7
Gene No.	107682	Strand	-
Start	8109	End	8726
Name	OJ000309_13.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	6186	End	6360
GI	none	Score	188
Exons	6186..6359, 6190..6360		

Seq. No.	50793	Seq. ID	OJ000309_13.0419.C7
Gene No.	107682	Strand	-
Start	8109	End	8726
Name	OJ000309_13.0419.C7.o2.np	Method	AAT/NAP
Start	8109	End	8720
GI	6815053	Score	530
Exons	8109..8345, 8395..8720		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	50793	Seq. ID	OJ000309_13.0419.C7
Gene No.	107682	Strand	-
Start	8109	End	8726
Name	OJ000309_13.0419.C7.o4.gs	Method	GENSCAN
Start	8349	End	8726
GI	none	Score	.62
Exons	8349..8511, 8623..8726		

Seq. No.	50794	Seq. ID	OJ000309_13.0419.C8
Gene No.	107683	Strand	+
Start	1	End	1970
Name	OJ000309_13.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	1468
GI	6742729	Score	796
Exons	1..237, 306..1468		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	50794	Seq. ID	OJ000309_13.0419.C8
Gene No.	107683	Strand	+
Start	1	End	1970
Name	OJ000309_13.0419.C8.o1.gs	Method	GENSCAN
Start	45	End	1970
GI	none	Score	.63
Exons	45..800, 930..1970		

Seq. No.	50794	Seq. ID	OJ000309_13.0419.C8
Gene No.	107683	Strand	+
Start	1	End	1970
Name	OJ000309_13.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	606	End	989
GI	none	Score	59
Exons	606..674, 674..985, 675..989, 675..986		

Seq. No.	50794	Seq. ID	OJ000309_13.0419.C8
Gene No.	107683	Strand	+
Start	1	End	1970
Name	OJ000309_13.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	630	End	1838
GI	none	Score	569

Exons 630..1385, 875..1159, 1364..1537, 1398..1553, 1542..1646,
1572..1628, 1659..1763, 1664..1756, 1770..1838

Seq. No.	50794	Seq. ID	OJ000309_13.0419.C8
Gene No.	107683	Strand	+
Start	1	End	1970
Name	OJ000309_13.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	920	End	1343
GI	none	Score	329
Exons	920..1159, 921..1343		

Seq. No.	50794	Seq. ID	OJ000309_13.0419.C8
Gene No.	107683	Strand	+
Start	1	End	1970
Name	OJ000309_13.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	1239	End	1534
GI	none	Score	151
Exons	1239..1409, 1413..1532, 1421..1534		

Seq. No.	50795	Seq. ID	OJ000309_13.0419.C9
Gene No.	107684	Strand	+
Start	248	End	2804
Name	OJ000309_13.0419.C9.o1.gs	Method	GENSCAN
Start	248	End	2804
GI	none	Score	.71
Exons	248..511, 1161..1412, 1498..2205, 2328..2804		

Seq. No.	50796	Seq. ID	OJ000309_13.0419.C10
Gene No.	107685	Strand	+
Start	673	End	3861
Name	OJ000309_13.0419.C10.o1.gs	Method	GENSCAN
Start	673	End	2353
GI	none	Score	.88
Exons	673..768, 904..1339, 1454..1538, 1826..1898, 1993..2091, 2171..2353		

Seq. No.	50796	Seq. ID	OJ000309_13.0419.C10
Gene No.	107685	Strand	+
Start	673	End	3861
Name	OJ000309_13.0419.C10.o1.np	Method	AAT/NAP
Start	693	End	3861
GI	4680203	Score	922
Exons	693..1403, 3840..3861		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	50796	Seq. ID	OJ000309_13.0419.C10
Gene No.	107686	Strand	+
Start	4465	End	5907
Name	OJ000309_13.0419.C10.o3.np	Method	AAT/NAP
Start	4465	End	5907
GI	7340860	Score	75
Exons	4465..4496, 5789..5907		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50796	Seq. ID	OJ000309_13.0419.C10
Gene No.	107687	Strand	-

Start	701	End	1392
Name	OJ000309_13.0419.C10.o1.gp	Method	AAT/GAP
Start	701	End	1392
GI	342_1.R1084	Score	1182
Exons	701..1392		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	50796	Seq. ID	OJ000309_13.0419.C10
Gene No.	107688	Strand	-
Start	2687	End	5455
Name	OJ000309_13.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	712	End	1008
GI	none	Score	245
Exons	712..1008, 744..995		

Seq. No.	50796	Seq. ID	OJ000309_13.0419.C10
Gene No.	107688	Strand	-
Start	2687	End	5455
Name	OJ000309_13.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	741	End	1089
GI	none	Score	294
Exons	741..815, 748..1089, 843..893, 942..1070		

Seq. No.	50796	Seq. ID	OJ000309_13.0419.C10
Gene No.	107688	Strand	-
Start	2687	End	5455
Name	OJ000309_13.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	877	End	1346
GI	none	Score	64
Exons	877..933, 885..929, 930..1031, 931..1035, 1039..1137, 1044..1136, 1047..1139, 1117..1341, 1137..1346, 1138..1341, 1140..1346		

Seq. No.	50796	Seq. ID	OJ000309_13.0419.C10
Gene No.	107688	Strand	-
Start	2687	End	5455
Name	OJ000309_13.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	922	End	1380
GI	none	Score	245
Exons	922..1176, 934..1176, 1186..1380		

Seq. No.	50796	Seq. ID	OJ000309_13.0419.C10
Gene No.	107688	Strand	-
Start	2687	End	5455
Name	OJ000309_13.0419.C10.o2.np	Method	AAT/NAP
Start	2687	End	5455
GI	7106528	Score	110
Exons	2687..2826, 5416..5455		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50796	Seq. ID	OJ000309_13.0419.C10
Gene No.	107688	Strand	-
Start	2687	End	5455
Name	OJ000309_13.0419.C10.o2.gs	Method	GENSCAN
Start	4785	End	5343

GI	none	Score	.54
Exons	4785..4939, 5007..5343		
Seq. No.	50797	Seq. ID	OJ000309_13.0419.C12
Gene No.	107689	Strand	-
Start	1919	End	1962
Name	OJ000309_13.0419.C12.o1.gs	Method	GENSCAN
Start	1919	End	1962
GI	none	Score	.4
Exons	1919..1962		
Seq. No.	50798	Seq. ID	OJ000309_13.0419.C13
Gene No.	107690	Strand	-
Start	1	End	120
Name	OJ000309_13.0419.C13.o1.gp	Method	AAT/GAP
Start	1	End	120
GI	78461_1.R1084	Score	232
Exons	1..120		
GI Descrip.	'5262755/emb CAB45903.1 2.0e-18 (AL080283) putative protein [Arabidopsis thaliana]'		
Seq. No.	50798	Seq. ID	OJ000309_13.0419.C13
Gene No.	107691	Strand	-
Start	99	End	1323
Name	OJ000309_13.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	6	End	532
GI	none	Score	43
Exons	6..74, 38..82, 95..532, 100..531		
Seq. No.	50798	Seq. ID	OJ000309_13.0419.C13
Gene No.	107691	Strand	-
Start	99	End	1323
Name	OJ000309_13.0419.C13.o1.np	Method	AAT/NAP
Start	99	End	1208
GI	7486378	Score	403
Exons	99..1208		
GI Descrip.	hypothetical protein F3L17.10 - Arabidopsis thaliana gi 5262755 emb CAB45903.1 (AL080283) putative protein [Arabidopsis thaliana] gi 7270047 emb CAB79862.1 (AL161579) putative protein [Arabidopsis thaliana]		
Seq. No.	50798	Seq. ID	OJ000309_13.0419.C13
Gene No.	107691	Strand	-
Start	99	End	1323
Name	OJ000309_13.0419.C13.o1.gs	Method	GENSCAN
Start	291	End	1268
GI	none	Score	.69
Exons	291..563, 647..1268		
Seq. No.	50798	Seq. ID	OJ000309_13.0419.C13
Gene No.	107691	Strand	-
Start	99	End	1323
Name	OJ000309_13.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	877	End	1274
GI	none	Score	134
Exons	877..912, 906..1274, 935..1102, 946..1272		

Seq. No.	50798	Seq. ID	OJ000309_13.0419.C13
Gene No.	107691	Strand	-
Start	99	End	1323
Name	OJ000309_13.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	951	End	1142
GI	none	Score	114
Exons	951..1142, 952..1119, 954..1127		

Seq. No.	50798	Seq. ID	OJ000309_13.0419.C13
Gene No.	107691	Strand	-
Start	99	End	1323
Name	OJ000309_13.0419.C13.o2.gp	Method	AAT/GAP
Start	957	End	1323
GI	5667523	Score	726
Exons	957..1323		
GI Descrip.	5262755/emb CAB45903.1 2.0e-18 (AL080283) putative protein [Arabidopsis thaliana]		

Seq. No.	50798	Seq. ID	OJ000309_13.0419.C13
Gene No.	107691	Strand	-
Start	99	End	1323
Name	OJ000309_13.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	976	End	1193
GI	none	Score	206
Exons	976..1170, 978..1193		

Seq. No.	50799	Seq. ID	OJ000309_13.0419.C14
Gene No.	107692	Strand	-
Start	924	End	1446
Name	OJ000309_13.0419.C14.o1.np	Method	AAT/NAP
Start	924	End	1446
GI	6523547	Score	159
Exons	924..1446		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	50799	Seq. ID	OJ000309_13.0419.C14
Gene No.	107693	Strand	-
Start	1977	End	4899
Name	OJ000309_13.0419.C14.o2.np	Method	AAT/NAP
Start	1977	End	4899
GI	6815052	Score	82
Exons	1977..2002, 3428..3511, 3663..3823, 4066..4207, 4869..4899		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	50799	Seq. ID	OJ000309_13.0419.C14
Gene No.	107693	Strand	-
Start	1977	End	4899
Name	OJ000309_13.0419.C14.o2.gs	Method	GENSCAN
Start	2918	End	4679
GI	none	Score	.63
Exons	2918..2974, 4263..4409, 4476..4679		

Seq. No.	50800	Seq. ID	OJ000309_13.0419.C15
Gene No.	107694	Strand	+
Start	1	End	5958
Name	OJ000309_13.0419.C15.o1.np	Method	AAT/NAP

Start	1	End	3885
GI	5734621	Score	86
Exons	1..42, 1178..1374, 3823..3885		
GI Descrip.	(AP000391) ESTs AU067992(C11433), AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	50800	Seq. ID	OJ000309_13.0419.C15
Gene No.	107694	Strand	+
Start	1	End	5958
Name	OJ000309_13.0419.C15.o1.gs	Method	GENSCAN
Start	968	End	5402
GI	none	Score	.71
Exons	968..1125, 1858..1898, 2341..2647, 4577..4784, 4935..5185, 5231..5255, 5340..5402		

Seq. No.	50800	Seq. ID	OJ000309_13.0419.C15
Gene No.	107694	Strand	+
Start	1	End	5958
Name	OJ000309_13.0419.C15.o6.np	Method	AAT/NAP
Start	5036	End	5958
GI	5922620	Score	179
Exons	5036..5185, 5231..5255, 5799..5958		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1 (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50800	Seq. ID	OJ000309_13.0419.C15
Gene No.	107695	Strand	-
Start	1	End	2039
Name	OJ000309_13.0419.C15.o3.np	Method	AAT/NAP
Start	1	End	2039
GI	6705984	Score	153
Exons	1..34, 1558..2039		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	50800	Seq. ID	OJ000309_13.0419.C15
Gene No.	107695	Strand	-
Start	1	End	2039
Name	OJ000309_13.0419.C15.o2.np	Method	AAT/NAP
Start	1622	End	1992
GI	4689454	Score	84
Exons	1622..1992		
GI Descrip.	(AC006267) putative polyprotein [Arabidopsis thaliana]		

Seq. No.	50800	Seq. ID	OJ000309_13.0419.C15
Gene No.	107696	Strand	-
Start	4347	End	4802
Name	OJ000309_13.0419.C15.o4.np	Method	AAT/NAP
Start	4347	End	4802
GI	6539570	Score	151
Exons	4347..4418, 4599..4802		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	50800	Seq. ID	OJ000309_13.0419.C15
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Gene No.	107697	Strand	-
Start	4929	End	5958
Name	OJ000309_13.0419.C15.o5.np	Method	AAT/NAP
Start	4929	End	5958
GI	6630699	Score	92
Exons	4929..5032, 5828..5958		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	50800	Seq. ID	OJ000309_13.0419.C15
Gene No.	107697	Strand	-
Start	4929	End	5958
Name	OJ000309_13.0419.C15.o2.gs	Method	GENSCAN
Start	5584	End	5949
GI	none	Score	.97
Exons	5584..5949		

Seq. No.	50801	Seq. ID	OJ000309_13.0419.C16
Gene No.	107698	Strand	+
Start	1	End	1694
Name	OJ000309_13.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	1694
GI	5922620	Score	261
Exons	1..198, 1563..1694		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1 (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50801	Seq. ID	OJ000309_13.0419.C16
Gene No.	107699	Strand	-
Start	33	End	4276
Name	OJ000309_13.0419.C16.o1.gs	Method	GENSCAN
Start	33	End	4276
GI	none	Score	.62
Exons	33..175, 286..553, 1098..1213, 1507..1641, 2958..3011, 3102..3223, 3521..4276		

Seq. No.	50801	Seq. ID	OJ000309_13.0419.C16
Gene No.	107699	Strand	-
Start	33	End	4276
Name	OJ000309_13.0419.C16.o2.np	Method	AAT/NAP
Start	1833	End	1918
GI	6630699	Score	80
Exons	1833..1918		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	50802	Seq. ID	OJ000309_13.0419.C17
Gene No.	107700	Strand	+
Start	1058	End	10970
Name	OJ000309_13.0419.C17.o1.gs	Method	GENSCAN
Start	1058	End	4338
GI	none	Score	.83

Exons 1058..1116, 1225..1323, 1801..1858, 2097..2233, 3228..3325, 3529..3728, 3941..4338

Seq. No. 50802 Seq. ID OJ000309_13.0419.C17
Gene No. 107700 Strand +
Start 1058 End 10970
Name OJ000309_13.0419.C17.o1.np Method AAT/NAP
Start 2320 End 8175
GI 7485778 Score 161
Exons 2320..2352, 7395..7520, 7776..7891, 8028..8175
GI Descrip. hypothetical protein F19F24.11 - Arabidopsis thaliana
gi|3004565|gb|AAC09038.1| (AC003673) unknown protein
[Arabidopsis thaliana]

Seq. No. 50802 Seq. ID OJ000309_13.0419.C17
Gene No. 107700 Strand +
Start 1058 End 10970
Name OJ000309_13.0419.C17.o2.gs Method GENSCAN
Start 7405 End 10970
GI none Score .64
Exons 7405..7737, 7801..7891, 8028..8125, 10213..10341, 10917..10970

Seq. No. 50802 Seq. ID OJ000309_13.0419.C17
Gene No. 107701 Strand +
Start 13966 End 15602
Name OJ000309_13.0419.C17.o4.gs Method GENSCAN
Start 13966 End 15602
GI none Score .6
Exons 13966..14255, 14614..15602

Seq. No. 50802 Seq. ID OJ000309_13.0419.C17
Gene No. 107701 Strand +
Start 13966 End 15602
Name OJ000309_13.0419.C17.o1.gp Method AAT/GAP
Start 14350 End 14603
GI 569996 Score 484
Exons 14350..14603

Seq. No. 50802 Seq. ID OJ000309_13.0419.C17
Gene No. 107702 Strand -
Start 11815 End 13444
Name OJ000309_13.0419.C17.o1.tm Method TBLASTX:Maize
Start 1042 End 3649
GI none Score 92
Exons 1042..1116, 1043..1117, 1053..1118, 1057..1119, 1207..1263, 1219..1263, 1223..1264, 1797..1859, 1801..1860, 2087..2233, 2089..2232, 2314..2382, 2315..2371, 2316..2372, 3218..3331, 3225..3320, 3225..3335, 3525..3626, 3527..3613, 3528..3641, 3530..3649, 3532..3645

Seq. No. 50802 Seq. ID OJ000309_13.0419.C17
Gene No. 107702 Strand -
Start 11815 End 13444
Name OJ000309_13.0419.C17.o1.ts Method TBLASTX:Soybean
Start 2086 End 3872
GI none Score 118
Exons 2086..2229, 2090..2233, 2092..2232, 2313..2372, 2314..2373,

3219..3317, 3227..3394, 3530..3727, 3825..3872

Seq. No.	50802	Seq. ID	OJ000309_13.0419.C17
Gene No.	107702	Strand	-
Start	11815	End	13444
Name	OJ000309_13.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	7815	End	8140
GI	none	Score	78
Exons	7815..7886, 7816..7890, 8012..8140, 8026..8139		

Seq. No.	50802	Seq. ID	OJ000309_13.0419.C17
Gene No.	107702	Strand	-
Start	11815	End	13444
Name	OJ000309_13.0419.C17.o3.gs	Method	GENSCAN
Start	11815	End	13444
GI	none	Score	.81
Exons	11815..13176, 13199..13444		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107703	Strand	+
Start	1	End	3368
Name	OJ000309_13.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	3304
GI	6466937	Score	2128
Exons	1..3304		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107703	Strand	+
Start	1	End	3368
Name	OJ000309_13.0419.C18.o1.gs	Method	GENSCAN
Start	85	End	3368
GI	none	Score	.41
Exons	85..215, 258..1424, 2515..3368		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107704	Strand	+
Start	3459	End	3762
Name	OJ000309_13.0419.C18.o1.gp	Method	AAT/GAP
Start	3459	End	3762
GI	569996	Score	188
Exons	3459..3571, 3735..3762		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107705	Strand	+
Start	4583	End	4830
Name	OJ000309_13.0419.C18.o2.np	Method	AAT/NAP
Start	4583	End	4830
GI	7242910	Score	84
Exons	4583..4666, 4741..4830		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107706	Strand	-
Start	3666	End	6245
Name	OJ000309_13.0419.C18.o2.tw	Method	TBLASTX:Wheat

Start 434
GI none
Exons 434..916, 532..912

End 916
Score 367

Seq. No. 50803
Gene No. 107706
Start 3666
Name OJ000309_13.0419.C18.o4.ts
Start 470
GI none
Exons 470..784

Seq. ID OJ000309_13.0419.C18
Strand -
End 6245
Method TBLASTX:Soybean
End 784
Score 189

Seq. No. 50803
Gene No. 107706
Start 3666
Name OJ000309_13.0419.C18.o2.tm
Start 497
GI none
Exons 497..970, 497..715, 730..960, 767..967

Seq. ID OJ000309_13.0419.C18
Strand -
End 6245
Method TBLASTX:Maize
End 970
Score 617

Seq. No. 50803
Gene No. 107706
Start 3666
Name OJ000309_13.0419.C18.o1.ts
Start 893
GI none
Exons 893..1252

Seq. ID OJ000309_13.0419.C18
Strand -
End 6245
Method TBLASTX:Soybean
End 1252
Score 322

Seq. No. 50803
Gene No. 107706
Start 3666
Name OJ000309_13.0419.C18.o3.tw
Start 965
GI none
Exons 965..1366, 989..1306

Seq. ID OJ000309_13.0419.C18
Strand -
End 6245
Method TBLASTX:Wheat
End 1366
Score 338

Seq. No. 50803
Gene No. 107706
Start 3666
Name OJ000309_13.0419.C18.o3.tm
Start 994
GI none
Exons 994..1104, 995..1516, 1183..1515

Seq. ID OJ000309_13.0419.C18
Strand -
End 6245
Method TBLASTX:Maize
End 1516
Score 607

Seq. No. 50803
Gene No. 107706
Start 3666
Name OJ000309_13.0419.C18.o3.ts
Start 1276
GI none
Exons 1276..1425, 1277..1519, 1331..1474

Seq. ID OJ000309_13.0419.C18
Strand -
End 6245
Method TBLASTX:Soybean
End 1519
Score 213

Seq. No. 50803
Gene No. 107706
Start 3666
Name OJ000309_13.0419.C18.o5.tm
Start 1517

Seq. ID OJ000309_13.0419.C18
Strand -
End 6245
Method TBLASTX:Maize
End 1942

GI	none	Score	227
Exons	1517..1693, 1517..1678, 1712..1942, 1736..1942		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107706	Strand	-
Start	3666	End	6245
Name	OJ000309_13.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	1712	End	2110
GI	none	Score	373
Exons	1712..2110, 1939..2109		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107706	Strand	-
Start	3666	End	6245
Name	OJ000309_13.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	1943	End	2581
GI	none	Score	318
Exons	1943..2242, 2029..2241, 2219..2578, 2220..2579, 2220..2579, 2279..2581		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107706	Strand	-
Start	3666	End	6245
Name	OJ000309_13.0419.C18.o2.ts	Method	TBLASTX:Soybean
Start	1967	End	2351
GI	none	Score	212
Exons	1967..2242, 2038..2220, 2220..2351, 2285..2347		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107706	Strand	-
Start	3666	End	6245
Name	OJ000309_13.0419.C18.o5.tw	Method	TBLASTX:Wheat
Start	2220	End	2579
GI	none	Score	265
Exons	2220..2579		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107706	Strand	-
Start	3666	End	6245
Name	OJ000309_13.0419.C18.o4.tm	Method	TBLASTX:Maize
Start	2622	End	3255
GI	none	Score	531
Exons	2622..3191, 2622..2948, 2828..3193, 3050..3193, 3109..3255		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107706	Strand	-
Start	3666	End	6245
Name	OJ000309_13.0419.C18.o4.tw	Method	TBLASTX:Wheat
Start	2646	End	2987
GI	none	Score	325
Exons	2646..2987, 2652..2852, 2744..2938		

Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107706	Strand	-
Start	3666	End	6245
Name	OJ000309_13.0419.C18.o2.gs	Method	GENSCAN
Start	3666	End	5997

GI	none	Score	.51
Exons	3666..4068, 4346..4491, 5842..5997		
Seq. No.	50803	Seq. ID	OJ000309_13.0419.C18
Gene No.	107706	Strand	-
Start	3666	End	6245
Name	OJ000309_13.0419.C18.o3.np	Method	AAT/NAP
Start	5674	End	6245
GI	5295955	Score	226
Exons	5674..5783, 5810..6245		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	50804	Seq. ID	OJ000309_13.0419.C19
Gene No.	107707	Strand	+
Start	153	End	770
Name	OJ000309_13.0419.C19.o1.gs	Method	GENSCAN
Start	153	End	770
GI	none	Score	.57
Exons	153..264, 357..770		

Seq. No.	50804	Seq. ID	OJ000309_13.0419.C19
Gene No.	107708	Strand	-
Start	1	End	5782
Name	OJ000309_13.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	5211
GI	5295955	Score	500
Exons	1..197, 236..274, 354..558, 590..654, 743..877, 1557..1671, 2214..2306, 4965..5211		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	50804	Seq. ID	OJ000309_13.0419.C19
Gene No.	107708	Strand	-
Start	1	End	5782
Name	OJ000309_13.0419.C19.o2.np	Method	AAT/NAP
Start	4950	End	5782
GI	4337202	Score	263
Exons	4950..5782		
GI Descrip.	(AC006403) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50804	Seq. ID	OJ000309_13.0419.C19
Gene No.	107709	Strand	-
Start	9692	End	9851
Name	OJ000309_13.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	5253	End	5698
GI	none	Score	106
Exons	5253..5393, 5254..5373, 5268..5402, 5474..5533, 5477..5698, 5603..5695		

Seq. No.	50804	Seq. ID	OJ000309_13.0419.C19
Gene No.	107709	Strand	-
Start	9692	End	9851
Name	OJ000309_13.0419.C19.o3.np	Method	AAT/NAP
Start	9692	End	9851
GI	5295955	Score	112
Exons	9692..9851		

GI Descrip. (AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555)
[Oryza sativa]

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107710	Strand	+
Start	1284	End	5861
Name	OJ000309_13.0419.C20.o1.np	Method	AAT/NAP
Start	1284	End	5861
GI	4680179	Score	6650
Exons	1284..5861		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o7.tw	Method	TBLASTX:Wheat
Start	1553	End	1916
GI	none	Score	298
Exons	1553..1657, 1557..1916, 1682..1915		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o7.tm	Method	TBLASTX:Maize
Start	1797	End	2093
GI	none	Score	207
Exons	1797..2093, 1814..1984		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o6.tm	Method	TBLASTX:Maize
Start	2442	End	2762
GI	none	Score	209
Exons	2442..2762		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o8.tw	Method	TBLASTX:Wheat
Start	2495	End	2849
GI	none	Score	268
Exons	2495..2635, 2496..2849, 2679..2810		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o4.tw	Method	TBLASTX:Wheat
Start	3020	End	3506
GI	none	Score	546
Exons	3020..3463, 3024..3506, 3024..3464		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o4.tm	Method	TBLASTX:Maize
Start	3089	End	3560

GI	none	Score	385
Exons	3089..3334, 3093..3560, 3183..3527		
Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o4.ts	Method	TBLASTX:Soybean
Start	3093	End	3374
GI	none	Score	183
Exons	3093..3374		
Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	3447	End	3843
GI	none	Score	57
Exons	3447..3479, 3447..3479, 3483..3842, 3486..3560, 3490..3843, 3490..3624, 3599..3841		
Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o5.tw	Method	TBLASTX:Wheat
Start	3555	End	3857
GI	none	Score	397
Exons	3555..3857, 3593..3856		
Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o5.tm	Method	TBLASTX:Maize
Start	3576	End	3929
GI	none	Score	325
Exons	3576..3929, 3587..3847		
Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o2.tw	Method	TBLASTX:Wheat
Start	3858	End	4367
GI	none	Score	643
Exons	3858..4367, 3890..4276		
Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o3.ts	Method	TBLASTX:Soybean
Start	3867	End	4109
GI	none	Score	197
Exons	3867..4109		
Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	3930	End	4283

GI	none	Score	483
Exons	3930..4283, 3932..4198, 3972..4268		
Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o3.tw	Method	TBLASTX:Wheat
Start	4371	End	4850
GI	none	Score	590
Exons	4371..4850, 4389..4844, 4466..4849		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	4548	End	4874
GI	none	Score	90
Exons	4548..4730, 4731..4874, 4796..4873		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o2.ts	Method	TBLASTX:Soybean
Start	4638	End	4898
GI	none	Score	299
Exons	4638..4898, 4643..4744, 4830..4898		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o3.tm	Method	TBLASTX:Maize
Start	4696	End	4988
GI	none	Score	390
Exons	4696..4887, 4698..4988, 4767..4979, 4799..4984		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	4857	End	5483
GI	none	Score	669
Exons	4857..5483, 4913..5482		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	5037	End	5624
GI	none	Score	226
Exons	5037..5198, 5043..5189, 5045..5191, 5196..5294, 5196..5264, 5198..5293, 5355..5624, 5363..5623		

Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o6.tw	Method	TBLASTX:Wheat
Start	5483	End	5816

GI	none	Score	363
Exons	5483..5620, 5484..5816		
Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o8.tm	Method	TBLASTX:Maize
Start	5625	End	5837
GI	none	Score	201
Exons	5625..5837		
Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o2.np	Method	AAT/NAP
Start	6151	End	9625
GI	5295955	Score	777
Exons	6151..6722, 6762..6995, 7129..7386, 8067..8181, 8724..8816, 9367..9625		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		
Seq. No.	50805	Seq. ID	OJ000309_13.0419.C20
Gene No.	107711	Strand	-
Start	6151	End	9625
Name	OJ000309_13.0419.C20.o2.gs	Method	GENSCAN
Start	7562	End	8793
GI	none	Score	.79
Exons	7562..7643, 8067..8245, 8656..8793		
Seq. No.	50806	Seq. ID	OJ000309_13.0419.C21
Gene No.	107712	Strand	+
Start	133	End	3802
Name	OJ000309_13.0419.C21.o1.np	Method	AAT/NAP
Start	133	End	3802
GI	5042447	Score	849
Exons	133..764, 3574..3802		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	50806	Seq. ID	OJ000309_13.0419.C21
Gene No.	107713	Strand	+
Start	12502	End	14474
Name	OJ000309_13.0419.C21.o4.gs	Method	GENSCAN
Start	12502	End	14474
GI	none	Score	.88
Exons	12502..12875, 14297..14474		
Seq. No.	50806	Seq. ID	OJ000309_13.0419.C21
Gene No.	107714	Strand	-
Start	5822	End	9599
Name	OJ000309_13.0419.C21.o3.gs	Method	GENSCAN
Start	5822	End	9599
GI	none	Score	.59
Exons	5822..5954, 6208..6290, 8858..8904, 8945..8976, 9325..9599		
Seq. No.	50806	Seq. ID	OJ000309_13.0419.C21
Gene No.	107715	Strand	-

Start	15235	End	15503
Name	OJ000309_13.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	401	End	763
GI	none	Score	237
Exons	401..763, 433..759		

Seq. No.	50806	Seq. ID	OJ000309_13.0419.C21
Gene No.	107715	Strand	-
Start	15235	End	15503
Name	OJ000309_13.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	14795	End	15181
GI	none	Score	71
Exons	14795..15124, 15038..15130, 15122..15181		

Seq. No.	50806	Seq. ID	OJ000309_13.0419.C21
Gene No.	107715	Strand	-
Start	15235	End	15503
Name	OJ000309_13.0419.C21.o5.gs	Method	GENSCAN
Start	15235	End	15503
GI	none	Score	.51
Exons	15235..15404, 15429..15503		

Seq. No.	50807	Seq. ID	OJ000309_13.0419.C22
Gene No.	107716	Strand	-
Start	106	End	2237
Name	OJ000309_13.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	6	End	864
GI	none	Score	90
Exons	6..71, 124..396, 442..864, 443..631, 502..636		

Seq. No.	50807	Seq. ID	OJ000309_13.0419.C22
Gene No.	107716	Strand	-
Start	106	End	2237
Name	OJ000309_13.0419.C22.o1.gs	Method	GENSCAN
Start	106	End	2237
GI	none	Score	.69
Exons	106..849, 981..2237		

Seq. No.	50807	Seq. ID	OJ000309_13.0419.C22
Gene No.	107716	Strand	-
Start	106	End	2237
Name	OJ000309_13.0419.C22.o2.tw	Method	TBLASTX:Wheat
Start	421	End	747
GI	none	Score	173
Exons	421..747		

Seq. No.	50807	Seq. ID	OJ000309_13.0419.C22
Gene No.	107716	Strand	-
Start	106	End	2237
Name	OJ000309_13.0419.C22.o1.np	Method	AAT/NAP
Start	496	End	900
GI	7489553	Score	596
Exons	496..900		
GI Descrip.	probable reverse transcriptase - rice (fragment) gi 2462640 emb CAA73800.1 (Y13370) reverse transcriptase [Oryza sativa]		

Seq. No.	50807	Seq. ID	OJ000309_13.0419.C22
Gene No.	107716	Strand	-
Start	106	End	2237
Name	OJ000309_13.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	1557	End	1976
GI	none	Score	92
Exons	1557..1613, 1650..1874, 1650..1976, 1717..1965		

Seq. No.	50808	Seq. ID	OJ000229_15.0419.C1
Gene No.	107717	Strand	+
Start	5015	End	5417
Name	OJ000229_15.0419.C1.o1.gp	Method	AAT/GAP
Start	5015	End	5417
GI	none	Score	773
Exons	5015..5417		

Seq. No.	50808	Seq. ID	OJ000229_15.0419.C1
Gene No.	107718	Strand	+
Start	7470	End	7760
Name	OJ000229_15.0419.C1.o2.gp	Method	AAT/GAP
Start	7470	End	7760
GI	3760584	Score	535
Exons	7470..7760		

Seq. No.	50808	Seq. ID	OJ000229_15.0419.C1
Gene No.	107719	Strand	-
Start	1	End	7689
Name	OJ000229_15.0419.C1.o2.np	Method	AAT/NAP
Start	1	End	2974
GI	6539588	Score	155
Exons	1..37, 2698..2974		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	50808	Seq. ID	OJ000229_15.0419.C1
Gene No.	107719	Strand	-
Start	1	End	7689
Name	OJ000229_15.0419.C1.o1.gs	Method	GENSCAN
Start	97	End	7689
GI	none	Score	.64
Exons	97..164, 374..724, 1267..2580, 2860..2947, 5812..5908, 6114..6308, 6407..6595, 7060..7332, 7451..7689		

Seq. No.	50808	Seq. ID	OJ000229_15.0419.C1
Gene No.	107720	Strand	-
Start	8659	End	10065
Name	OJ000229_15.0419.C1.o2.gs	Method	GENSCAN
Start	8659	End	9996
GI	none	Score	.97
Exons	8659..9463, 9579..9712, 9858..9996		

Seq. No.	50808	Seq. ID	OJ000229_15.0419.C1
Gene No.	107720	Strand	-
Start	8659	End	10065
Name	OJ000229_15.0419.C1.o3.np	Method	AAT/NAP
Start	8662	End	10065
GI	2347198	Score	302
Exons	8662..8768, 8906..9375, 9623..9712, 9858..10065		

GI Descrip. (AC002338) hypothetical protein [Arabidopsis thaliana]

Seq. No.	50808	Seq. ID	OJ000229_15.0419.C1
Gene No.	107720	Strand	-
Start	8659	End	10065
Name	OJ000229_15.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	9689	End	9995
GI	none	Score	161
Exons	9689..9727, 9858..9995, 9862..9993		

Seq. No.	50808	Seq. ID	OJ000229_15.0419.C1
Gene No.	107720	Strand	-
Start	8659	End	10065
Name	OJ000229_15.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	9870	End	9996
GI	none	Score	140
Exons	9870..9995, 9871..9996		

Seq. No.	50809	Seq. ID	OJ000229_15.0419.C2
Gene No.	107721	Strand	+
Start	1	End	709
Name	OJ000229_15.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	709
GI	6721512	Score	108
Exons	1..26, 360..474, 502..635, 678..709		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	50809	Seq. ID	OJ000229_15.0419.C2
Gene No.	107722	Strand	-
Start	484	End	702
Name	OJ000229_15.0419.C2.o1.gs	Method	GENSCAN
Start	484	End	702
GI	none	Score	.94
Exons	484..702		

Seq. No.	50810	Seq. ID	OJ000229_15.0419.C5
Gene No.	107723	Strand	+
Start	256	End	1333
Name	OJ000229_15.0419.C5.o1.gs	Method	GENSCAN
Start	256	End	1333
GI	none	Score	.55
Exons	256..328, 980..1110, 1274..1333		

Seq. No.	50811	Seq. ID	OJ000229_15.0419.C7
Gene No.	107724	Strand	+
Start	611	End	660
Name	OJ000229_15.0419.C7.o1.gs	Method	GENSCAN
Start	611	End	660
GI	none	Score	.79
Exons	611..660		

Seq. No.	50811	Seq. ID	OJ000229_15.0419.C7
Gene No.	107725	Strand	+
Start	685	End	774
Name	OJ000229_15.0419.C7.o1.gp	Method	AAT/GAP
Start	685	End	774
GI	5867_1.R1084	Score	144

Exons 685..774
 GI Descrip. '464986/sp|P35132|UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714 (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]

Seq. No. 50811 Seq. ID OJ000229_15.0419.C7
 Gene No. 107726 Strand +
 Start 690 End 7913
 Name OJ000229_15.0419.C7.o1.np Method AAT/NAP
 Start 690 End 7913
 GI 4493965 Score 81
 Exons 690..802, 7879..7913
 GI Descrip. (AL034559) predicted using hexExon; MAL3P7.4 (PFC0875w), Hypothetical protein, len: 3004 aa [Plasmodium falciparum]

Seq. No. 50811 Seq. ID OJ000229_15.0419.C7
 Gene No. 107727 Strand -
 Start 6162 End 20611
 Name OJ000229_15.0419.C7.o2.np Method AAT/NAP
 Start 6162 End 18150
 GI 7340904 Score 131
 Exons 6162..6294, 8281..8350, 8380..8488, 8767..8884, 18127..18150
 GI Descrip. (AP001550) hypothetical protein [Oryza sativa]

Seq. No. 50811 Seq. ID OJ000229_15.0419.C7
 Gene No. 107727 Strand -
 Start 6162 End 20611
 Name OJ000229_15.0419.C7.o3.gs Method GENSCAN
 Start 10291 End 20611
 GI none Score .51
 Exons 10291..10515, 14798..14842, 16772..16949, 18443..18627, 19251..19427, 20013..20611

Seq. No. 50811 Seq. ID OJ000229_15.0419.C7
 Gene No. 107727 Strand -
 Start 6162 End 20611
 Name OJ000229_15.0419.C7.o4.np Method AAT/NAP
 Start 14841 End 18404
 GI 7510076 Score 111
 Exons 14841..15056, 15090..15211, 18359..18404
 GI Descrip. hypothetical protein Y50E8A.i - Caenorhabditis elegans

Seq. No. 50811 Seq. ID OJ000229_15.0419.C7
 Gene No. 107727 Strand -
 Start 6162 End 20611
 Name OJ000229_15.0419.C7.o2.gp Method AAT/GAP
 Start 18350 End 19422
 GI none Score 813
 Exons 18350..18627, 19251..19422

Seq. No. 50812 Seq. ID OJ000229_15.0419.C8
 Gene No. 107728 Strand +
 Start 94 End 330

Name OJ000229_15.0419.C8.o1.gs
 Start 94
 GI none
 Exons 94..330

Method GENSCAN
 End 330
 Score .8

Seq. No. 50812
 Gene No. 107729
 Start 2037
 Name OJ000229_15.0419.C8.o2.gs
 Start 2037
 GI none
 Exons 2037..2174

Seq. ID OJ000229_15.0419.C8
 Strand -
 End 2174
 Method GENSCAN
 End 2174
 Score .57

Seq. No. 50813
 Gene No. 107730
 Start 9378
 Name OJ000229_15.0419.C9.o2.np
 Start 9378
 GI 1362009
 Exons 9378..9399, 10649..10844
 GI Descrip. polyubiquitin 2 - Arabidopsis thaliana

Seq. ID OJ000229_15.0419.C9
 Strand +
 End 11446
 Method AAT/NAP
 End 10844
 Score 60

Seq. No. 50813
 Gene No. 107730
 Start 9378
 Name OJ000229_15.0419.C9.o3.gs
 Start 10594
 GI none
 Exons 10594..10695, 10747..11298, 11314..11446

Seq. ID OJ000229_15.0419.C9
 Strand +
 End 11446
 Method GENSCAN
 End 11446
 Score .8

Seq. No. 50813
 Gene No. 107731
 Start 4740
 Name OJ000229_15.0419.C9.o1.np
 Start 4740
 GI 539029
 Exons 4740..4898, 5236..5390, 6592..6649, 6696..6763, 6870..6896
 GI Descrip. cysteine-rich extensin-like protein 1 precursor - common tobacco
 gi|310923 (L13439) cysteine-rich extensin-like protein-1
 [Nicotiana tabacum]

Seq. ID OJ000229_15.0419.C9
 Strand -
 End 6896
 Method AAT/NAP
 End 6896
 Score 67

Seq. No. 50813
 Gene No. 107732
 Start 7951
 Name OJ000229_15.0419.C9.o2.gs
 Start 7951
 GI none
 Exons 7951..8104, 9257..9294

Seq. ID OJ000229_15.0419.C9
 Strand -
 End 9294
 Method GENSCAN
 End 9294
 Score .72

Seq. No. 50814
 Gene No. 107733
 Start 67
 Name OJ000229_15.0419.C10.o1.gs
 Start 67
 GI none
 Exons 67..123, 1299..1329, 2577..3249, 3528..3571, 3754..3822,
 4361..4503

Seq. ID OJ000229_15.0419.C10
 Strand +
 End 4637
 Method GENSCAN
 End 4503
 Score .84

Seq. No.	50814	Seq. ID	OJ000229_15.0419.C10
Gene No.	107733	Strand	+
Start	67	End	4637
Name	OJ000229_15.0419.C10.o2.np	Method	AAT/NAP
Start	2747	End	4610
GI	7340868	Score	209
Exons	2747..2840, 4430..4610		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	50814	Seq. ID	OJ000229_15.0419.C10
Gene No.	107733	Strand	+
Start	67	End	4637
Name	OJ000229_15.0419.C10.o1.gp	Method	AAT/GAP
Start	4312	End	4637
GI	LIB3432-058-P1-K1-E12	Score	356
Exons	4312..4637		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 8.0e-31 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	50814	Seq. ID	OJ000229_15.0419.C10
Gene No.	107734	Strand	-
Start	1286	End	1504
Name	OJ000229_15.0419.C10.o1.np	Method	AAT/NAP
Start	1286	End	1504
GI	7340905	Score	78
Exons	1286..1504		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	50814	Seq. ID	OJ000229_15.0419.C10
Gene No.	107735	Strand	-
Start	6654	End	7004
Name	OJ000229_15.0419.C10.o2.gs	Method	GENSCAN
Start	6654	End	6878
GI	none	Score	.76
Exons	6654..6878		

Seq. No.	50814	Seq. ID	OJ000229_15.0419.C10
Gene No.	107735	Strand	-
Start	6654	End	7004
Name	OJ000229_15.0419.C10.o3.np	Method	AAT/NAP
Start	6657	End	7004
GI	3786016	Score	462
Exons	6657..7004		
GI Descrip.	(AC005499) putative elongation factor [Arabidopsis thaliana]		

Seq. No.	50814	Seq. ID	OJ000229_15.0419.C10
Gene No.	107736	Strand	-
Start	6925	End	7004
Name	OJ000229_15.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	6639	End	7001
GI	none	Score	215
Exons	6639..7001, 6657..7001		

Seq. No.	50814	Seq. ID	OJ000229_15.0419.C10
Gene No.	107736	Strand	-
Start	6925	End	7004

Name	OJ000229_15.0419.C10.o2.gp	Method	AAT/GAP
Start	6925	End	7004
GI	286929	Score	160
Exons	6925..7004		
GI Descrip.	3786016 2.0e-11 (AC005499) putative elongation factor [Arabidopsis thaliana]		

Seq. No.	50815	Seq. ID	OJ000229_15.0419.C11
Gene No.	107737	Strand	+
Start	11101	End	11614
Name	OJ000229_15.0419.C11.o3.gp	Method	AAT/GAP
Start	11101	End	11614
GI	none	Score	541
Exons	11101..11276, 11377..11417, 11526..11614		

Seq. No.	50815	Seq. ID	OJ000229_15.0419.C11
Gene No.	107738	Strand	-
Start	1613	End	6210
Name	OJ000229_15.0419.C11.o1.gs	Method	GENSCAN
Start	1613	End	6210
GI	none	Score	.68
Exons	1613..1654, 1851..2150, 4059..4208, 4537..4673, 5400..5421, 5511..5616, 5747..6210		

Seq. No.	50815	Seq. ID	OJ000229_15.0419.C11
Gene No.	107738	Strand	-
Start	1613	End	6210
Name	OJ000229_15.0419.C11.o1.gp	Method	AAT/GAP
Start	3070	End	4125
GI	3768331	Score	729
Exons	3070..3445, 4059..4125		

Seq. No.	50815	Seq. ID	OJ000229_15.0419.C11
Gene No.	107738	Strand	-
Start	1613	End	6210
Name	OJ000229_15.0419.C11.o1.np	Method	AAT/NAP
Start	3988	End	5992
GI	4895223	Score	1181
Exons	3988..4208, 4294..4443, 4534..4673, 4929..4991, 5220..5421, 5511..5640, 5747..5992		
GI Descrip.	(AC007660) glycerol-3-phosphate dehydrogenase [Arabidopsis thaliana]		

Seq. No.	50815	Seq. ID	OJ000229_15.0419.C11
Gene No.	107739	Strand	-
Start	7297	End	12304
Name	OJ000229_15.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	4176	End	4690
GI	none	Score	55
Exons	4176..4208, 4177..4209, 4177..4209, 4291..4449, 4291..4446, 4292..4447, 4530..4685, 4534..4686, 4538..4681, 4538..4690		

Seq. No.	50815	Seq. ID	OJ000229_15.0419.C11
Gene No.	107739	Strand	-
Start	7297	End	12304
Name	OJ000229_15.0419.C11.o2.gp	Method	AAT/GAP
Start	7081	End	9127

GI 1211_1.R1084 Score 1361
 Exons 7081..7356, 7449..7514, 7776..8061, 8906..8964, 9057..9127
 GI Descrip. '5106775/gb|AAD39838.1|AF067732_1 3.0e-64 (AF067732) ribosomal protein S12 [Hordeum vulgare]'

Seq. No. 50815 Seq. ID OJ000229_15.0419.C11
 Gene No. 107739 Strand -
 Start 7297 End 12304
 Name OJ000229_15.0419.C11.o1.ts Method TBLASTX:Soybean
 Start 7149 End 8007
 GI none Score 59
 Exons 7149..7247, 7160..7243, 7164..7265, 7291..7383, 7292..7384, 7296..7397, 7443..7514, 7482..7514, 7486..7515, 7764..8006, 7773..8006, 7774..8007

Seq. No. 50815 Seq. ID OJ000229_15.0419.C11
 Gene No. 107739 Strand -
 Start 7297 End 12304
 Name OJ000229_15.0419.C11.o2.tm Method TBLASTX:Maize
 Start 7152 End 8038
 GI none Score 46
 Exons 7152..7178, 7153..7179, 7292..7384, 7294..7383, 7296..7397, 7443..7514, 7482..7514, 7486..7515, 7764..8033, 7773..8024, 7780..8037, 7781..8038

Seq. No. 50815 Seq. ID OJ000229_15.0419.C11
 Gene No. 107739 Strand -
 Start 7297 End 12304
 Name OJ000229_15.0419.C11.o1.tc Method TBLASTX:Cress
 Start 7294 End 8019
 GI none Score 121
 Exons 7294..7383, 7482..7514, 7764..8018, 7773..8018, 7777..8019, 7780..8019

Seq. No. 50815 Seq. ID OJ000229_15.0419.C11
 Gene No. 107739 Strand -
 Start 7297 End 12304
 Name OJ000229_15.0419.C11.o2.gs Method GENSCAN
 Start 7297 End 12304
 GI none Score .73
 Exons 7297..7356, 7449..7514, 7776..8017, 8906..8964, 9647..10185, 10261..10312, 10518..10574, 12282..12304

Seq. No. 50815 Seq. ID OJ000229_15.0419.C11
 Gene No. 107739 Strand -
 Start 7297 End 12304
 Name OJ000229_15.0419.C11.o2.np Method AAT/NAP
 Start 7300 End 8084
 GI 5106775 Score 573
 Exons 7300..7356, 7449..7514, 7776..8084
 GI Descrip. (AF067732) ribosomal protein S12 [Hordeum vulgare]

Seq. No. 50815 Seq. ID OJ000229_15.0419.C11
 Gene No. 107739 Strand -
 Start 7297 End 12304
 Name OJ000229_15.0419.C11.o1.tw Method TBLASTX:Wheat
 Start 7773 End 8035

GI none Score 297
Exons 7773..8024, 7774..8025, 7780..8031, 7967..8035

Seq. No. 50816 Seq. ID OJ000229_15.0419.C12
Gene No. 107740 Strand -
Start 1 End 1325
Name OJ000229_15.0419.C12.o1.np Method AAT/NAP
Start 1 End 1190
GI 4680207 Score 570
Exons 1..430, 470..1190
GI Descrip. (AF114171) disease resistance protein RPM1 homolog [Sorghum
bicolor]

Seq. No. 50816 Seq. ID OJ000229_15.0419.C12
Gene No. 107740 Strand -
Start 1 End 1325
Name OJ000229_15.0419.C12.o1.gs Method GENSCAN
Start 43 End 1215
GI none Score .94
Exons 43..861, 982..1215

Seq. No. 50816 Seq. ID OJ000229_15.0419.C12
Gene No. 107740 Strand -
Start 1 End 1325
Name OJ000229_15.0419.C12.o1.tm Method TBLASTX:Maize
Start 598 End 1090
GI none Score 35
Exons 598..684, 674..778, 700..768, 819..938, 847..942, 952..996,
1009..1089, 1010..1090

Seq. No. 50816 Seq. ID OJ000229_15.0419.C12
Gene No. 107740 Strand -
Start 1 End 1325
Name OJ000229_15.0419.C12.o1.ts Method TBLASTX:Soybean
Start 598 End 1325
GI none Score 46
Exons 598..681, 793..813, 819..944, 970..1284, 1293..1325

Seq. No. 50816 Seq. ID OJ000229_15.0419.C12
Gene No. 107740 Strand -
Start 1 End 1325
Name OJ000229_15.0419.C12.o1.tw Method TBLASTX:Wheat
Start 817 End 1092
GI none Score 107
Exons 817..936, 819..935, 1009..1092, 1010..1090

Seq. No. 50817 Seq. ID OJ000229_15.0419.C13
Gene No. 107741 Strand -
Start 1 End 2459
Name OJ000229_15.0419.C13.o1.np Method AAT/NAP
Start 1 End 2459
GI 4680207 Score 85
Exons 1..39, 2214..2459
GI Descrip. (AF114171) disease resistance protein RPM1 homolog [Sorghum
bicolor]

Seq. No. 50818 Seq. ID OJ000229_15.0419.C14

Gene No.	107742	Strand	-
Start	1	End	106
Name	OJ000229_15.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	106
GI	7328528	Score	107
Exons	1..106		
GI Descrip.	(AB040028) RPM1 like protein [Oryza sativa]		

Seq. No.	50818	Seq. ID	OJ000229_15.0419.C14
Gene No.	107743	Strand	-
Start	366	End	1180
Name	OJ000229_15.0419.C14.o1.gs	Method	GENSCAN
Start	366	End	1144
GI	none	Score	.83
Exons	366..433, 577..756, 1087..1144		

Seq. No.	50818	Seq. ID	OJ000229_15.0419.C14
Gene No.	107743	Strand	-
Start	366	End	1180
Name	OJ000229_15.0419.C14.o2.np	Method	AAT/NAP
Start	457	End	1180
GI	7523502	Score	200
Exons	457..774, 1087..1180		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	50819	Seq. ID	OJ000229_15.0419.C15
Gene No.	107744	Strand	-
Start	1136	End	1632
Name	OJ000229_15.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	1127	End	1611
GI	none	Score	53
Exons	1127..1387, 1203..1373, 1409..1486, 1490..1606, 1495..1611		

Seq. No.	50819	Seq. ID	OJ000229_15.0419.C15
Gene No.	107744	Strand	-
Start	1136	End	1632
Name	OJ000229_15.0419.C15.o1.np	Method	AAT/NAP
Start	1136	End	1632
GI	4416302	Score	505
Exons	1136..1632		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	50819	Seq. ID	OJ000229_15.0419.C15
Gene No.	107744	Strand	-
Start	1136	End	1632
Name	OJ000229_15.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	1151	End	1624
GI	none	Score	173
Exons	1151..1483, 1167..1484, 1492..1623, 1499..1624		

Seq. No.	50819	Seq. ID	OJ000229_15.0419.C15
Gene No.	107744	Strand	-
Start	1136	End	1632
Name	OJ000229_15.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	1202	End	1617
GI	none	Score	62
Exons	1202..1315, 1202..1378, 1397..1483, 1495..1617		

Seq. No.	50820	Seq. ID	OJ000229_15.0419.C16
Gene No.	107745	Strand	-
Start	1	End	717
Name	OJ000229_15.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	717
GI	5295971	Score	118
Exons	1..88, 152..363, 462..717		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	50820	Seq. ID	OJ000229_15.0419.C16
Gene No.	107745	Strand	-
Start	1	End	717
Name	OJ000229_15.0419.C16.o1.gs	Method	GENSCAN
Start	82	End	615
GI	none	Score	.51
Exons	82..263, 345..615		

Seq. No.	50821	Seq. ID	OJ000229_15.0419.C17
Gene No.	107746	Strand	+
Start	1799	End	13772
Name	OJ000229_15.0419.C17.o1.gs	Method	GENSCAN
Start	1799	End	5407
GI	none	Score	.7
Exons	1799..1853, 3129..3333, 3389..3563, 3639..3809, 4124..4177, 4205..4280, 4372..4427, 5375..5407		

Seq. No.	50821	Seq. ID	OJ000229_15.0419.C17
Gene No.	107746	Strand	+
Start	1799	End	13772
Name	OJ000229_15.0419.C17.o1.np	Method	AAT/NAP
Start	2822	End	13772
GI	7486419	Score	122
Exons	2822..3127, 3403..3495, 6607..6758, 9997..10163, 10199..10336, 13693..13772		
GI Descrip.	hypothetical protein F4D11.90 - Arabidopsis thaliana gi 3063699 emb CAA18590.1 (AL022537) putative protein [Arabidopsis thaliana] gi 7270175 emb CAB79988.1 (AL161581) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	50821	Seq. ID	OJ000229_15.0419.C17
Gene No.	107746	Strand	+
Start	1799	End	13772
Name	OJ000229_15.0419.C17.o1.gp	Method	AAT/GAP
Start	4801	End	5358
GI	none	Score	1083
Exons	4801..5358		

Seq. No.	50822	Seq. ID	OJ000229_15.0419.C18
Gene No.	107747	Strand	+
Start	577	End	4167
Name	OJ000229_15.0419.C18.o1.gs	Method	GENSCAN
Start	577	End	4111
GI	none	Score	.43
Exons	577..589, 1359..1570, 1648..1774, 2139..2389, 3519..3632,		

4058..4111

Seq. No.	50822	Seq. ID	OJ000229_15.0419.C18
Gene No.	107747	Strand	+
Start	577	End	4167
Name	OJ000229_15.0419.C18.o1.gp	Method	AAT/GAP
Start	2351	End	2660
GI	25175_1.R1084	Score	290
Exons	2351..2389, 2525..2660		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 2.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	50822	Seq. ID	OJ000229_15.0419.C18
Gene No.	107747	Strand	+
Start	577	End	4167
Name	OJ000229_15.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	2581	End	4167
GI	none	Score	103
Exons	2581..2676, 2582..2659, 3067..3138, 3067..3210, 3068..3211, 3069..3212, 3507..3632, 3516..3641, 3517..3732, 4021..4167, 4021..4107, 4022..4162, 4023..4166		

Seq. No.	50822	Seq. ID	OJ000229_15.0419.C18
Gene No.	107747	Strand	+
Start	577	End	4167
Name	OJ000229_15.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	3067	End	4167
GI	none	Score	165
Exons	3067..3207, 3068..3208, 3069..3212, 3507..3632, 3520..3669, 3521..3637, 3546..3641, 3986..4141, 4017..4166, 4021..4167, 4021..4104, 4023..4163		

Seq. No.	50822	Seq. ID	OJ000229_15.0419.C18
Gene No.	107747	Strand	+
Start	577	End	4167
Name	OJ000229_15.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	3067	End	4167
GI	none	Score	228
Exons	3067..3207, 3068..3211, 3069..3212, 3507..3632, 3516..3632, 3517..3663, 3518..3637, 4021..4167, 4021..4104, 4022..4162, 4023..4163		

Seq. No.	50822	Seq. ID	OJ000229_15.0419.C18
Gene No.	107747	Strand	+
Start	577	End	4167
Name	OJ000229_15.0419.C18.o2.gp	Method	AAT/GAP
Start	3068	End	3212
GI	25175_1.R1084	Score	230
Exons	3068..3212		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 2.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	50822	Seq. ID	OJ000229_15.0419.C18
Gene No.	107747	Strand	+
Start	577	End	4167
Name	OJ000229_15.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	3081	End	4167

GI none Score 169
 Exons 3081..3221, 3081..3203, 3082..3204, 3083..3217, 3524..3607, 3538..3582, 3590..3628, 3594..3632, 3986..4165, 4021..4167, 4021..4107, 4023..4166

Seq. No. 50823 Seq. ID OJ000229_15.0419.C19
 Gene No. 107748 Strand +
 Start 1 End 2878
 Name OJ000229_15.0419.C19.o1.np Method AAT/NAP
 Start 1 End 2784
 GI 3024894 Score 180
 Exons 1..91, 1031..1293, 1408..1505, 1692..1877, 2546..2784
 GI Descrip. HYPOTHETICAL 54.8 KD PROTEIN RV0647C

Seq. No. 50823 Seq. ID OJ000229_15.0419.C19
 Gene No. 107748 Strand +
 Start 1 End 2878
 Name OJ000229_15.0419.C19.o1.tm Method TBLASTX:Maize
 Start 1 End 1485
 GI none Score 137
 Exons 1..93, 2..94, 2..94, 3..104, 1018..1293, 1020..1217, 1021..1296, 1028..1309, 1028..1294, 1404..1481, 1407..1481, 1408..1485, 1409..1483

Seq. No. 50823 Seq. ID OJ000229_15.0419.C19
 Gene No. 107748 Strand +
 Start 1 End 2878
 Name OJ000229_15.0419.C19.o1.ts Method TBLASTX:Soybean
 Start 1 End 1876
 GI none Score 126
 Exons 1..93, 2..94, 1015..1290, 1028..1297, 1031..1300, 1407..1499, 1407..1508, 1408..1509, 1409..1537, 1707..1745, 1708..1746, 1762..1869, 1763..1873, 1766..1876

Seq. No. 50823 Seq. ID OJ000229_15.0419.C19
 Gene No. 107748 Strand +
 Start 1 End 2878
 Name OJ000229_15.0419.C19.o1.gs Method GENSCAN
 Start 1028 End 2769
 GI none Score .66
 Exons 1028..1293, 1408..1505, 2591..2769

Seq. No. 50823 Seq. ID OJ000229_15.0419.C19
 Gene No. 107748 Strand +
 Start 1 End 2878
 Name OJ000229_15.0419.C19.o1.tc Method TBLASTX:Cress
 Start 1040 End 1510
 GI none Score 62
 Exons 1040..1084, 1114..1290, 1115..1297, 1407..1505, 1407..1505, 1408..1509, 1408..1509, 1409..1510

Seq. No. 50823 Seq. ID OJ000229_15.0419.C19
 Gene No. 107748 Strand +
 Start 1 End 2878
 Name OJ000229_15.0419.C19.o2.tm Method TBLASTX:Maize
 Start 1708 End 2878
 GI none Score 54

Exons 1708..1737, 1732..1875, 1763..1873, 2295..2339, 2296..2373, 2369..2413, 2373..2411, 2571..2753, 2594..2725, 2599..2787, 2599..2769, 2830..2868, 2831..2878, 2832..2870

Seq. No.	50823	Seq. ID	OJ000229_15.0419.C19
Gene No.	107748	Strand	+
Start	1	End	2878
Name	OJ000229_15.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	2299	End	2748
GI	none	Score	50
Exons	2299..2373, 2373..2411, 2574..2732, 2595..2726, 2597..2734, 2599..2748, 2608..2733		

Seq. No.	50823	Seq. ID	OJ000229_15.0419.C19
Gene No.	107748	Strand	+
Start	1	End	2878
Name	OJ000229_15.0419.C19.o2.tc	Method	TBLASTX:Cress
Start	2373	End	2816
GI	none	Score	64
Exons	2373..2411, 2577..2711, 2599..2742, 2608..2739, 2757..2816		

Seq. No.	50824	Seq. ID	OJ000229_15.0419.C21
Gene No.	107749	Strand	-
Start	1	End	6483
Name	OJ000229_15.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	1955
GI	7452413	Score	1304
Exons	1..222, 363..606, 694..929, 985..1497, 1542..1667, 1875..1955		
GI Descrip.	hypothetical protein dl3025c - Arabidopsis thaliana gi 2244753 emb CAB10176.1 (Z97335) hypothetical protein [Arabidopsis thaliana] gi 7268101 emb CAB78439.1 (AL161537) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50824	Seq. ID	OJ000229_15.0419.C21
Gene No.	107749	Strand	-
Start	1	End	6483
Name	OJ000229_15.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	1	End	207
GI	none	Score	201
Exons	1..207, 3..197		

Seq. No.	50824	Seq. ID	OJ000229_15.0419.C21
Gene No.	107749	Strand	-
Start	1	End	6483
Name	OJ000229_15.0419.C21.o2.ts	Method	TBLASTX:Soybean
Start	1	End	177
GI	none	Score	99
Exons	1..177, 1..177		

Seq. No.	50824	Seq. ID	OJ000229_15.0419.C21
Gene No.	107749	Strand	-
Start	1	End	6483
Name	OJ000229_15.0419.C21.o1.gs	Method	GENSCAN
Start	27	End	6483
GI	none	Score	.42
Exons	27..221, 404..606, 694..893, 985..1636, 1880..1992, 2010..2150, 2972..3123, 3307..3483, 3538..3763, 6343..6483		

Seq. No.	50824	Seq. ID	OJ000229_15.0419.C21
Gene No.	107749	Strand	-
Start	1	End	6483
Name	OJ000229_15.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	351	End	903
GI	none	Score	102
Exons	351..614, 376..609, 693..899, 709..903		
Seq. No.	50824	Seq. ID	OJ000229_15.0419.C21
Gene No.	107749	Strand	-
Start	1	End	6483
Name	OJ000229_15.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	558	End	1102
GI	none	Score	72
Exons	558..608, 559..609, 693..899, 694..894, 930..1100, 985..1101, 986..1102		
Seq. No.	50824	Seq. ID	OJ000229_15.0419.C21
Gene No.	107749	Strand	-
Start	1	End	6483
Name	OJ000229_15.0419.C21.o2.tc	Method	TBLASTX:Cress
Start	1390	End	1600
GI	none	Score	113
Exons	1390..1599, 1391..1600		
Seq. No.	50824	Seq. ID	OJ000229_15.0419.C21
Gene No.	107749	Strand	-
Start	1	End	6483
Name	OJ000229_15.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	1600	End	2153
GI	none	Score	65
Exons	1600..1635, 1877..1921, 1879..1968, 1947..2153, 1951..2151		
Seq. No.	50825	Seq. ID	OJ000209_16.0418.C1
Gene No.	107750	Strand	+
Start	7187	End	8061
Name	OJ000209_16.0418.C1.o2.np	Method	AAT/NAP
Start	7187	End	8061
GI	5922614	Score	233
Exons	7187..7351, 8006..8061		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016847 dbj BAA85190.1 (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	50825	Seq. ID	OJ000209_16.0418.C1
Gene No.	107751	Strand	-
Start	3163	End	6268
Name	OJ000209_16.0418.C1.o1.np	Method	AAT/NAP
Start	3163	End	6268
GI	5922615	Score	574
Exons	3163..3347, 5332..5464, 6206..6268		
GI Descrip.	(AP000492) EST AU056052(S20251) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016848 dbj BAA85191.1 (AP000570) EST AU056052(S20251) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50826	Seq. ID	OJ000209_16.0418.C2
Gene No.	107752	Strand	+
Start	689	End	1349
Name	OJ000209_16.0418.C2.o1.np	Method	AAT/NAP
Start	689	End	1349
GI	5922614	Score	278
Exons	689..772, 1075..1349		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016847 dbj BAA85190.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	50826	Seq. ID	OJ000209_16.0418.C2
Gene No.	107753	Strand	+
Start	6464	End	9859
Name	OJ000209_16.0418.C2.o3.gs	Method	GENSCAN
Start	6464	End	9440
GI	none	Score	.86
Exons	6464..6543, 7621..7800, 7933..8046, 8788..8946, 9058..9232, 9317..9440		

Seq. No.	50826	Seq. ID	OJ000209_16.0418.C2
Gene No.	107753	Strand	+
Start	6464	End	9859
Name	OJ000209_16.0418.C2.o3.np	Method	AAT/NAP
Start	6464	End	9859
GI	5922612	Score	1221
Exons	6464..6543, 7621..7800, 7933..8046, 8788..8946, 9058..9232, 9351..9459, 9824..9859		
GI Descrip.	(AP000492) EST AU078118(E3904) corresponds to a region of the predicted gene.; similar to Arabidopsis thaliana BAC IG002P16; No definition line found. (AF007270) [Oryza sativa]		

Seq. No.	50826	Seq. ID	OJ000209_16.0418.C2
Gene No.	107753	Strand	+
Start	6464	End	9859
Name	OJ000209_16.0418.C2.o1.gp	Method	AAT/GAP
Start	8791	End	9156
GI	6025068	Score	398
Exons	8791..8946, 9058..9156		
GI Descrip.	5922612/dbj BAA84613.1 3.0e-37 (AP000492) EST AU078118(E3904) corresponds to a region of the predicted gene.; similar to Arabidopsis thaliana BAC IG002P16; No definition line found. (AF007270) [Oryza sativa]		

Seq. No.	50826	Seq. ID	OJ000209_16.0418.C2
Gene No.	107754	Strand	-
Start	1606	End	2134
Name	OJ000209_16.0418.C2.o2.gs	Method	GENSCAN
Start	1606	End	2134
GI	none	Score	.88
Exons	1606..1701, 1805..2134		

Seq. No.	50826	Seq. ID	OJ000209_16.0418.C2
Gene No.	107754	Strand	-
Start	1606	End	2134
Name	OJ000209_16.0418.C2.o2.np	Method	AAT/NAP

Start	1609	End	2134
GI	5922613	Score	705
Exons	1609..1701, 1805..2134		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016846 dbj BAA85189.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	50826	Seq. ID	OJ000209_16.0418.C2
Gene No.	107755	Strand	
Start	6463	End	9361
Name	OJ000209_16.0418.C2.o1.tc	Method	TBLASTX:Cress
Start	6463	End	8910
GI	none	Score	131
Exons	6463..6537, 6464..6544, 7618..7800, 7619..7807, 7649..7807, 7928..8041, 7930..8043, 8773..8910, 8786..8908		

Seq. No.	50826	Seq. ID	OJ000209_16.0418.C2
Gene No.	107755	Strand	
Start	6463	End	9361
Name	OJ000209_16.0418.C2.o1.ts	Method	TBLASTX:Soybean
Start	6463	End	9361
GI	none	Score	131
Exons	6463..6543, 6464..6544, 7618..7800, 7619..7807, 7928..8041, 7930..8055, 8773..8940, 8786..8944, 8786..8944, 9055..9159, 9056..9160, 9056..9160, 9179..9214, 9326..9361		

Seq. No.	50826	Seq. ID	OJ000209_16.0418.C2
Gene No.	107755	Strand	
Start	6463	End	9361
Name	OJ000209_16.0418.C2.o1.tm	Method	TBLASTX:Maize
Start	8816	End	9160
GI	none	Score	178
Exons	8816..8944, 8816..8944, 9043..9159, 9056..9160		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107756	Strand	+
Start	1	End	5245
Name	OJ000209_16.0418.C3.o1.np	Method	AAT/NAP
Start	1	End	5069
GI	5922612	Score	3051
Exons	1..25, 1008..1100, 1397..1489, 1679..1806, 1888..2128, 2203..2370, 2452..2547, 2661..2816, 2872..3003, 3082..3261, 3335..3463, 3788..3970, 4079..4254, 4856..5069		
GI Descrip.	(AP000492) EST AU078118(E3904) corresponds to a region of the predicted gene.; similar to Arabidopsis thaliana BAC IG002P16; No definition line found. (AF007270) [Oryza sativa]		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107756	Strand	+
Start	1	End	5245
Name	OJ000209_16.0418.C3.o1.gs	Method	GENSCAN
Start	227	End	5072
GI	none	Score	.85
Exons	227..316, 881..947, 1027..1100, 1222..1317, 1397..1489, 1679..1806, 1888..2128, 2203..2403, 2452..2547, 2661..2816, 2938..3003, 3082..3261, 3335..3463, 3788..3970, 4079..4254, 4856..5072		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107756	Strand	+
Start	1	End	5245
Name	OJ000209_16.0418.C3.o1.gp	Method	AAT/GAP
Start	749	End	1263
GI	3106724	Score	337
Exons	749..790, 881..947, 1027..1100, 1222..1263		
GI Descrip.	5732035/gb AAD48936.1 AF160760.4 4.0e-18 (AF160760) contains similarity to Pfam family PF0040 - WD domain, G-beta repeat; score=10.8, E=3.2, N=2 [Arabidopsis thaliana]		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107756	Strand	+
Start	1	End	5245
Name	OJ000209_16.0418.C3.o3.gp	Method	AAT/GAP
Start	2448	End	2962
GI	3107191	Score	381
Exons	2448..2547, 2661..2816, 2896..2962		
GI Descrip.	5922612/dbj BAA84613.1 8.0e-34 (AP000492) EST AU078118(E3904) corresponds to a region of the predicted gene.; similar to Arabidopsis thaliana BAC IG002P16; No definition line found. (AF007270) [Oryza sativa]		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107756	Strand	+
Start	1	End	5245
Name	OJ000209_16.0418.C3.o4.gp	Method	AAT/GAP
Start	3933	End	5245
GI	16651_1.R1084	Score	980
Exons	3933..3970, 4079..4254, 4856..5245		
GI Descrip.	'5922612/dbj BAA84613.1 7.0e-68 (AP000492) EST AU078118(E3904) corresponds to a region of the predicted gene.; similar to Arabidopsis thaliana BAC IG002P16; No definition line found. (AF007270) [Oryza sativa]'		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107757	Strand	+
Start	7552	End	8835
Name	OJ000209_16.0418.C3.o5.gp	Method	AAT/GAP
Start	7552	End	8835
GI	1874_1.R1084	Score	764
Exons	7552..7842, 7923..8059, 8804..8835		
GI Descrip.	'5922612/dbj BAA84613.1 3.0e-37 (AP000492) EST AU078118(E3904) corresponds to a region of the predicted gene.; similar to Arabidopsis thaliana BAC IG002P16; No definition line found. (AF007270) [Oryza sativa]'		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107757	Strand	+
Start	7552	End	8835
Name	OJ000209_16.0418.C3.o2.np	Method	AAT/NAP
Start	7714	End	8065
GI	5922611	Score	403
Exons	7714..7842, 7923..8065		
GI Descrip.	(AP000492) ESTs AU078117(E1380),C72293(E1380) correspond to a region of the predicted gene.; similar to SAR1/GTP-binding		

secretory factor. (AF001308) [Oryza sativa]

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o5.tm	Method	TBLASTX:Maize
Start	209	End	438
GI	none	Score	148
Exons	209..316, 214..327, 214..321, 394..438, 396..437		
Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o2.ts	Method	TBLASTX:Soybean
Start	438	End	2346
GI	none	Score	100
Exons	438..518, 439..531, 674..790, 875..949, 1219..1332, 1219..1305, 1221..1328, 1412..1498, 1416..1487, 1430..1498, 1670..1807, 1678..1806, 1885..2001, 1886..2002, 1893..2003, 1988..2128, 1994..2086, 2002..2133, 2209..2346		
Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o3.tm	Method	TBLASTX:Maize
Start	439	End	5011
GI	none	Score	92
Exons	439..531, 674..790, 679..762, 875..949, 1219..1332, 1219..1320, 1221..1328, 1402..1497, 1412..1498, 1670..1807, 1678..1806, 1884..1973, 1885..2001, 1886..2002, 1988..2125, 2002..2133, 2209..2235, 3358..3420, 3359..3421, 4947..5003, 4949..5011		
Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o4.tc	Method	TBLASTX:Cress
Start	725	End	1732
GI	none	Score	65
Exons	725..790, 875..949, 1041..1103, 1219..1335, 1219..1305, 1221..1331, 1412..1498, 1412..1489, 1670..1732		
Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o3.tc	Method	TBLASTX:Cress
Start	1735	End	2286
GI	none	Score	120
Exons	1735..1806, 1736..1807, 1885..2001, 1886..2002, 2000..2125, 2002..2133, 2200..2286, 2200..2274		
Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o1.tm	Method	TBLASTX:Maize
Start	2236	End	3357
GI	none	Score	141
Exons	2236..2328, 2244..2327, 2325..2372, 2326..2373, 2445..2543,		

2446..2547, 2451..2543, 2660..2818, 2660..2818, 2661..2843,
 2661..2831, 2662..2844, 2907..2957, 2911..2997, 2913..2993,
 3058..3279, 3067..3135, 3081..3263, 3334..3357

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o1.ts	Method	TBLASTX:Soybean
Start	2687	End	5072
GI	none	Score	119
Exons	2687..2818, 2697..2843, 2913..2993, 3067..3279, 3067..3135, 3081..3263, 3332..3466, 3334..3480, 3334..3465, 3544..3630, 3546..3632, 3603..3650, 3788..3970, 3790..3957, 4076..4252, 4078..4245, 4095..4250, 4851..5072, 4858..4995, 4865..5014, 4869..5072		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o1.tc	Method	TBLASTX:Cress
Start	2967	End	5015
GI	none	Score	46
Exons	2967..2993, 3095..3214, 3099..3269, 3100..3279, 3332..3466, 3337..3465, 3377..3445, 3544..3639, 3563..3661, 3564..3659, 3764..3847, 3785..3865, 3815..3979, 3853..3942, 4099..4284, 4103..4252, 4836..5015, 4853..5014		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o2.tm	Method	TBLASTX:Maize
Start	3423	End	4946
GI	none	Score	75
Exons	3423..3467, 3424..3465, 3424..3486, 3544..3630, 3546..3599, 3585..3650, 3587..3661, 3784..3966, 3785..3970, 3970..4005, 4055..4252, 4074..4220, 4075..4221, 4832..4936, 4853..4945, 4854..4946, 4854..4946		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o2.tw	Method	TBLASTX:Wheat
Start	3538	End	3960
GI	none	Score	61
Exons	3538..3597, 3545..3604, 3546..3608, 3546..3605, 3547..3630, 3572..3661, 3606..3659, 3771..3944, 3784..3960, 3785..3958, 3790..3960		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o2.gs	Method	GENSCAN
Start	6367	End	10144
GI	none	Score	.47
Exons	6367..6383, 7581..7758, 7818..8160, 8524..8569, 9958..10144		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
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Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o1.tw	Method	TBLASTX:Wheat
Start	7707	End	8048
GI	none	Score	234
Exons	7707..7841, 7708..7842, 7920..8048, 7925..8047		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o2.tc	Method	TBLASTX:Cress
Start	7710	End	8057
GI	none	Score	223
Exons	7710..7841, 7714..7842, 7920..8057, 7925..8056		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o3.ts	Method	TBLASTX:Soybean
Start	7710	End	8051
GI	none	Score	222
Exons	7710..7844, 7714..7845, 7881..8051, 7919..8050		

Seq. No.	50827	Seq. ID	OJ000209_16.0418.C3
Gene No.	107758	Strand	-
Start	6367	End	10144
Name	OJ000209_16.0418.C3.o4.tm	Method	TBLASTX:Maize
Start	7711	End	8060
GI	none	Score	227
Exons	7711..7842, 7713..7841, 7920..8057, 7922..8056, 7998..8060		

Seq. No.	50828	Seq. ID	OJ000209_16.0418.C5
Gene No.	107759	Strand	+
Start	1	End	1039
Name	OJ000209_16.0418.C5.o1.np	Method	AAT/NAP
Start	1	End	1039
GI	7106522	Score	616
Exons	1..481, 990..1039		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC F14M4 genomic sequence, unknown protein. (AC004411) [Oryza sativa]		

Seq. No.	50828	Seq. ID	OJ000209_16.0418.C5
Gene No.	107759	Strand	+
Start	1	End	1039
Name	OJ000209_16.0418.C5.o1.tm	Method	TBLASTX:Maize
Start	173	End	314
GI	none	Score	188
Exons	173..313, 180..314, 186..314		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107760	Strand	+
Start	1	End	1014
Name	OJ000209_16.0418.C6.o1.np	Method	AAT/NAP
Start	1	End	1011
GI	7106522	Score	1709
Exons	1..1011		

GI Descrip. (AP001278) Similar to Arabidopsis thaliana chromosome II BAC
F14M4 genomic sequence, unknown protein. (AC004411) [Oryza
sativa]

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107760	Strand	+
Start	1	End	1014
Name	OJ000209_16.0418.C6.o1.gs	Method	GENSCAN
Start	125	End	1014
GI	none	Score	.4
Exons	125..1014		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107761	Strand	+
Start	2329	End	2789
Name	OJ000209_16.0418.C6.o2.gs	Method	GENSCAN
Start	2329	End	2789
GI	none	Score	.68
Exons	2329..2449, 2461..2789		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107762	Strand	+
Start	6841	End	7461
Name	OJ000209_16.0418.C6.o4.np	Method	AAT/NAP
Start	6841	End	7461
GI	7106525	Score	1103
Exons	6841..7461		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107763	Strand	+
Start	9368	End	9728
Name	OJ000209_16.0418.C6.o5.np	Method	AAT/NAP
Start	9368	End	9728
GI	552739	Score	123
Exons	9368..9589, 9677..9728		
GI Descrip.	(M31206) rpoB protein [Zea mays]		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107764	Strand	-
Start	1568	End	4319
Name	OJ000209_16.0418.C6.o2.np	Method	AAT/NAP
Start	1568	End	4319
GI	7106523	Score	1421
Exons	1568..1678, 2028..2062, 2347..2505, 2599..2847, 3266..3540, 4276..4319		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107765	Strand	-
Start	5115	End	6957
Name	OJ000209_16.0418.C6.o1.gp	Method	AAT/GAP
Start	4751	End	5551
GI	none	Score	1576
Exons	4751..5551		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
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Gene No.	107765	Strand	-
Start	5115	End	6957
Name	OJ000209_16.0418.C6.o3.gs	Method	GENSCAN
Start	5115	End	6957
GI	none	Score	.45
Exons	5115..5653, 6750..6957		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107765	Strand	-
Start	5115	End	6957
Name	OJ000209_16.0418.C6.o3.np	Method	AAT/NAP
Start	5118	End	5480
GI	7106524	Score	616
Exons	5118..5480		
GI Descrip.	(AP001278) ESTs AU082511(E20629),AU082510(E20629) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107766	Strand	-
Start	10515	End	11947
Name	OJ000209_16.0418.C6.o1.tw	Method	TBLASTX:Wheat
Start	44	End	350
GI	none	Score	169
Exons	44..307, 44..349, 45..350, 46..348		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107766	Strand	-
Start	10515	End	11947
Name	OJ000209_16.0418.C6.o1.ts	Method	TBLASTX:Soybean
Start	430	End	739
GI	none	Score	251
Exons	430..723, 432..653, 454..723, 530..739		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107766	Strand	-
Start	10515	End	11947
Name	OJ000209_16.0418.C6.o1.tm	Method	TBLASTX:Maize
Start	435	End	777
GI	none	Score	362
Exons	435..653, 436..735, 457..777		

Seq. No.	50829	Seq. ID	OJ000209_16.0418.C6
Gene No.	107766	Strand	-
Start	10515	End	11947
Name	OJ000209_16.0418.C6.o4.gs	Method	GENSCAN
Start	10515	End	11947
GI	none	Score	.46
Exons	10515..10655, 11880..11947		

Seq. No.	50830	Seq. ID	OJ000209_16.0418.C7
Gene No.	107767	Strand	+
Start	323	End	2574
Name	OJ000209_16.0418.C7.o1.gs	Method	GENSCAN
Start	323	End	2574
GI	none	Score	.43
Exons	323..377, 665..720, 1306..1356, 2047..2574		

Seq. No.	50830	Seq. ID	OJ000209_16.0418.C7
Gene No.	107767	Strand	+
Start	323	End	2574
Name	OJ000209_16.0418.C7.o1.np	Method	AAT/NAP
Start	2241	End	2525
GI	7106526	Score	531
Exons	2241..2525		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	50830	Seq. ID	OJ000209_16.0418.C7
Gene No.	107768	Strand	-
Start	3989	End	5225
Name	OJ000209_16.0418.C7.o2.np	Method	AAT/NAP
Start	3989	End	5225
GI	7106527	Score	475
Exons	3989..4180, 5026..5225		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	50831	Seq. ID	OJ000209_16.0418.C8
Gene No.	107769	Strand	-
Start	1854	End	2027
Name	OJ000209_16.0418.C8.o1.np	Method	AAT/NAP
Start	1854	End	2027
GI	7106527	Score	81
Exons	1854..2027		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107770	Strand	+
Start	3839	End	13840
Name	OJ000209_16.0418.C9.o2.gs	Method	GENSCAN
Start	3839	End	13840
GI	none	Score	.71
Exons	3839..3954, 4038..4182, 5400..5474, 5566..5658, 5782..5841, 6040..6312, 6606..6662, 6746..6886, 6993..7043, 7132..7281, 7508..7610, 7788..7864, 8245..8397, 8806..9064, 9148..9236, 9337..9415, 10460..10555, 11979..12275, 12433..12516, 13539..13840		

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107770	Strand	+
Start	3839	End	13840
Name	OJ000209_16.0418.C9.o2.np	Method	AAT/NAP
Start	5364	End	7867
GI	7106529	Score	1832
Exons	5364..5474, 5566..5658, 5782..5841, 6040..6312, 6444..6518, 6606..6662, 6746..6886, 6993..7043, 7132..7227, 7311..7394, 7508..7610, 7788..7867		
GI Descrip.	(AP001278) ESTs C22403(C50132),C22404(C50132) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana shaggy related protein kinase ASK-gamma. (P43289) [Oryza sativa]		

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107770	Strand	+
Start	3839	End	13840
Name	OJ000209_16.0418.C9.o1.gp	Method	AAT/GAP

Start 6358 End 8385
 GI 8887_1.R1084 Score 2346
 Exons 6358..6518, 6606..6662, 6746..6886, 6993..7043, 7132..7227, 7311..7394, 7508..7610, 7788..8385
 GI Descrip. '1709128/sp|P51138|MSK2 MEDSA 1.0e-110 GLYCOGEN SYNTHASE KINASE-3 HOMOLOG MSK-2 >gi_481019_pir_S37643 protein kinase MSK-2 (EC 2.7.1.-) - alfalfa >gi_313146_emb_CAA48473_ (X68410) protein kinase [Medicago sativa]'

Seq. No. 50832 Seq. ID OJ000209_16.0418.C9
 Gene No. 107770 Strand +
 Start 3839 End 13840
 Name OJ000209_16.0418.C9.o2.gp Method AAT/GAP
 Start 8851 End 9237
 GI 2275956 Score 527
 Exons 8851..9064, 9148..9237

Seq. No. 50832 Seq. ID OJ000209_16.0418.C9
 Gene No. 107770 Strand +
 Start 3839 End 13840
 Name OJ000209_16.0418.C9.o3.gp Method AAT/GAP
 Start 8883 End 9270
 GI 2275956 Score 462
 Exons 8883..9064, 9148..9270

Seq. No. 50832 Seq. ID OJ000209_16.0418.C9
 Gene No. 107770 Strand +
 Start 3839 End 13840
 Name OJ000209_16.0418.C9.o3.np Method AAT/NAP
 Start 8935 End 9064
 GI 6094656 Score 93
 Exons 8935..9064
 GI Descrip. (AC004882) match to human [H55637 (NID:g1108503)], mouse [AA119256 (NID:g1676961)], and rat [AI230061 (NID:g3813948)] ESTs [Homo sapiens] gi|7242597|emb|CAB77284.1| (AL160311) hypothetical protein [Homo sapiens]

Seq. No. 50832 Seq. ID OJ000209_16.0418.C9
 Gene No. 107770 Strand +
 Start 3839 End 13840
 Name OJ000209_16.0418.C9.o4.gp Method AAT/GAP
 Start 9134 End 11856
 GI LIB3433-049-P1-K1-C6 Score 640
 Exons 9134..9168, 9351..9415, 10460..10555, 11662..11856
 GI Descrip. '1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'

Seq. No. 50832 Seq. ID OJ000209_16.0418.C9
 Gene No. 107771 Strand +
 Start 18817 End 20079
 Name OJ000209_16.0418.C9.o4.gs Method GENSCAN
 Start 18817 End 20079
 GI none Score .93
 Exons 18817..19128, 19204..19433, 19473..19661, 19795..19892, 19925..20079

Seq. No. 50832 Seq. ID OJ000209_16.0418.C9

Gene No.	107771	Strand	+
Start	18817	End	20079
Name	OJ000209_16.0418.C9.o6.np	Method	AAT/NAP
Start	18817	End	20029
GI	6498459	Score	1283
Exons	18817..19128, 19235..19374, 19473..19661, 19795..19846, 19925..20029		

GI Descrip. (AP000816) hypothetical protein [Oryza sativa]

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107772	Strand	-
Start	257	End	5218
Name	OJ000209_16.0418.C9.o1.np	Method	AAT/NAP
Start	257	End	5218
GI	7106528	Score	2714
Exons	257..365, 780..857, 909..1019, 1969..2516, 3328..3360, 3810..4393, 4512..4651, 5166..5218		

GI Descrip. (AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107773	Strand	-
Start	12556	End	13780
Name	OJ000209_16.0418.C9.o4.np	Method	AAT/NAP
Start	12556	End	13601
GI	6498457	Score	461
Exons	12556..12648, 13425..13601		

GI Descrip. (AP000816) EST AU032536(S10696) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107773	Strand	-
Start	12556	End	13780
Name	OJ000209_16.0418.C9.o5.gp	Method	AAT/GAP
Start	13395	End	13780
GI	64664_1.R1084	Score	726
Exons	13395..13780		

GI Descrip. '5922612/dbj|BAA84613.1| 8.0e-34 (AP000492) EST AU078118(E3904) corresponds to a region of the predicted gene.; similar to Arabidopsis thaliana BAC IG002P16; No definition line found. (AF007270) [Oryza sativa]'

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107774	Strand	-
Start	14711	End	18066
Name	OJ000209_16.0418.C9.o1.tm	Method	TBLASTX:Maize
Start	5275	End	7873
GI	none	Score	37
Exons	5275..5340, 5276..5341, 5286..5360, 5296..5361, 5344..5442, 5354..5461, 5360..5476, 5361..5474, 5563..5667, 5565..5657, 5603..5713, 5778..5864, 5779..5850, 6034..6315, 6034..6315, 6441..6521, 6449..6520, 6605..6667, 6606..6668, 6745..6885, 6746..6886, 6962..7045, 6990..7046, 6990..7046, 7129..7227, 7131..7229, 7131..7229, 7310..7396, 7311..7397, 7507..7554, 7508..7609, 7508..7609, 7786..7869, 7787..7873		

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
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Gene No.	107774	Strand	-
Start	14711	End	18066
Name	OJ000209_16.0418.C9.o1.tc	Method	TBLASTX:Cress
Start	5388	End	7878
GI	none	Score	67
Exons	5388..5474, 5423..5479, 5563..5667, 5565..5663, 5778..5864, 5779..5850, 6023..6121, 6034..6315, 6036..6299, 6441..6521, 6441..6533, 6605..6667, 6606..6668, 6742..6864, 6745..6885, 6746..6886, 6911..7039, 6990..7058, 7125..7223, 7134..7226, 7135..7227, 7135..7230, 7311..7397, 7316..7393, 7508..7609, 7510..7557, 7517..7609, 7786..7878, 7787..7870		

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107774	Strand	-
Start	14711	End	18066
Name	OJ000209_16.0418.C9.o1.ts	Method	TBLASTX:Soybean
Start	5388	End	7855
GI	none	Score	76
Exons	5388..5474, 5426..5479, 5563..5667, 5565..5663, 5778..5864, 5779..5850, 6033..6212, 6034..6315, 6034..6315, 6441..6521, 6602..6652, 6605..6667, 6606..6668, 6731..6877, 6742..6873, 6745..6882, 6746..6886, 6990..7046, 6992..7045, 7129..7227, 7131..7226, 7147..7227, 7311..7397, 7319..7393, 7508..7603, 7510..7551, 7787..7855		

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107774	Strand	-
Start	14711	End	18066
Name	OJ000209_16.0418.C9.o1.tw	Method	TBLASTX:Wheat
Start	5565	End	6315
GI	none	Score	85
Exons	5565..5663, 5572..5667, 5777..5845, 5779..5850, 5781..5861, 5781..5864, 6033..6074, 6034..6315, 6123..6308		

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107774	Strand	-
Start	14711	End	18066
Name	OJ000209_16.0418.C9.o2.tw	Method	TBLASTX:Wheat
Start	7129	End	7867
GI	none	Score	181
Exons	7129..7227, 7130..7228, 7131..7229, 7131..7229, 7310..7393, 7311..7397, 7508..7603, 7514..7603, 7772..7867		

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107774	Strand	-
Start	14711	End	18066
Name	OJ000209_16.0418.C9.o2.tm	Method	TBLASTX:Maize
Start	12295	End	12576
GI	none	Score	83
Exons	12295..12576, 12301..12495, 12302..12574		

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107774	Strand	-
Start	14711	End	18066
Name	OJ000209_16.0418.C9.o3.tw	Method	TBLASTX:Wheat
Start	12304	End	12652
GI	none	Score	181

Exons 12304..12483, 12308..12493, 12608..12652

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107774	Strand	-
Start	14711	End	18066
Name	OJ000209_16.0418.C9.o3.gs	Method	GENSCAN
Start	14711	End	18066
GI	none	Score	.65
Exons	14711..15024, 15038..15204, 15294..15539, 15974..16061, 17638..17875, 17881..18066		

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107774	Strand	-
Start	14711	End	18066
Name	OJ000209_16.0418.C9.o5.np	Method	AAT/NAP
Start	14714	End	18066
GI	6498458	Score	1639
Exons	14714..14880, 15038..15204, 15294..15539, 15974..16061, 17638..17852, 17894..18066		

GI Descrip. (AP000816) hypothetical protein [Oryza sativa]

Seq. No.	50832	Seq. ID	OJ000209_16.0418.C9
Gene No.	107775	Strand	-
Start	19005	End	19370
Name	OJ000209_16.0418.C9.o3.tm	Method	TBLASTX:Maize
Start	19005	End	19370
GI	none	Score	110
Exons	19005..19130, 19048..19131, 19048..19137, 19235..19294, 19244..19300, 19246..19299, 19338..19370		

Seq. No.	50833	Seq. ID	OJ000209_16.0418.C10
Gene No.	107776	Strand	+
Start	1294	End	1652
Name	OJ000209_16.0418.C10.o1.np	Method	AAT/NAP
Start	1294	End	1652
GI	6498460	Score	591
Exons	1294..1652		

GI Descrip. (AP000816) Similar to Arabidopsis thaliana chromosome II BAC F16M14 genomic sequence; unknown protein. (AC003028) [Oryza sativa] gi|7106533|dbj|BAA92218.1| (AP001278) Similar to Arabidopsis thaliana chromosome II BAC F16M14 genomic sequence; unknown protein. (AC003028) [Oryza sativa]

Seq. No.	50833	Seq. ID	OJ000209_16.0418.C10
Gene No.	107776	Strand	+
Start	1294	End	1652
Name	OJ000209_16.0418.C10.o2.gs	Method	GENSCAN
Start	1294	End	1577
GI	none	Score	.83
Exons	1294..1577		

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107777	Strand	+
Start	1	End	2465
Name	OJ000209_16.0418.C11.o1.np	Method	AAT/NAP
Start	1	End	2462
GI	6498460	Score	2071

Exons 1..328, 1551..2462
 GI Descrip. (AP000816) Similar to Arabidopsis thaliana chromosome II BAC F16M14 genomic sequence; unknown protein. (AC003028) [Oryza sativa] gi|7106533|dbj|BAA92218.1| (AP001278) Similar to Arabidopsis thaliana chromosome II BAC F16M14 genomic sequence; unknown protein. (AC003028) [Oryza sativa]

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107777	Strand	+
Start	1	End	2465
Name	OJ000209_16.0418.C11.o1.gs	Method	GENSCAN
Start	71	End	2465
GI	none	Score	.85
Exons	71..328, 1551..2465		

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107778	Strand	+
Start	6094	End	6925
Name	OJ000209_16.0418.C11.o2.gs	Method	GENSCAN
Start	6094	End	6925
GI	none	Score	.95
Exons	6094..6174, 6512..6925		

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107778	Strand	+
Start	6094	End	6925
Name	OJ000209_16.0418.C11.o2.np	Method	AAT/NAP
Start	6094	End	6922
GI	6498461	Score	950
Exons	6094..6174, 6399..6485, 6512..6922		
GI Descrip.	(AP000816) hypothetical protein [Oryza sativa]		

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107779	Strand	-
Start	8966	End	10522
Name	OJ000209_16.0418.C11.o1.ts	Method	TBLASTX:Soybean
Start	62	End	2420
GI	none	Score	68
Exons	62..136, 1623..1757, 1857..2183, 1862..2179, 2181..2420, 2351..2419		

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107779	Strand	-
Start	8966	End	10522
Name	OJ000209_16.0418.C11.o1.tm	Method	TBLASTX:Maize
Start	1623	End	2104
GI	none	Score	107
Exons	1623..1757, 1857..2102, 1862..2104		

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107779	Strand	-
Start	8966	End	10522
Name	OJ000209_16.0418.C11.o1.tc	Method	TBLASTX:Cress
Start	2004	End	2420
GI	none	Score	227
Exons	2004..2189, 2051..2179, 2181..2420, 2195..2239, 2303..2419		

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107779	Strand	-
Start	8966	End	10522
Name	OJ000209_16.0418.C11.o3.tm	Method	TBLASTX:Maize
Start	2108	End	2420
GI	none	Score	65
Exons	2108..2179, 2109..2183, 2181..2420, 2199..2261, 2312..2419		

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107779	Strand	-
Start	8966	End	10522
Name	OJ000209_16.0418.C11.o3.gs	Method	GENSCAN
Start	8966	End	10421
GI	none	Score	.96
Exons	8966..9283, 10205..10421		

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107779	Strand	-
Start	8966	End	10522
Name	OJ000209_16.0418.C11.o3.np	Method	AAT/NAP
Start	8969	End	10522
GI	6498462	Score	1078
Exons	8969..9283, 10205..10522		
GI Descrip.	(AP000816) hypothetical protein [Oryza sativa] gi 7106535 dbj BAA92220.1 (AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107779	Strand	-
Start	8966	End	10522
Name	OJ000209_16.0418.C11.o1.gp	Method	AAT/GAP
Start	8974	End	10381
GI	none	Score	923
Exons	8974..9283, 10205..10381		

Seq. No.	50834	Seq. ID	OJ000209_16.0418.C11
Gene No.	107779	Strand	-
Start	8966	End	10522
Name	OJ000209_16.0418.C11.o2.tm	Method	TBLASTX:Maize
Start	9224	End	10507
GI	none	Score	66
Exons	9224..9280, 10205..10240, 10247..10507, 10253..10384, 10273..10506		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107780	Strand	+
Start	839	End	1001
Name	OJ000209_16.0418.C12.o1.gp	Method	AAT/GAP
Start	839	End	1001
GI	533_1.R1084	Score	175
Exons	839..881, 904..1001		
GI Descrip.	'113172/sp P15543 ACP3_HORVU 9.0e-52 ACYL CARRIER PROTEIN III PRECURSOR (ACP III) >gi_100561_pir_S17928 acyl carrier protein 3 - barley >gi_166971 (M58754) acyl carrier protein III [Hordeum vulgare]'		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
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Gene No. 107781
 Start 20934
 Name OJ000209_16.0418.C12.o3.gp
 Start 20869
 GI none
 Exons 20869..21338

Strand +
 End 21853
 Method AAT/GAP
 End 21338
 Score 896

Seq. No. 50835
 Gene No. 107781
 Start 20934
 Name OJ000209_16.0418.C12.o4.gs
 Start 20934
 GI none
 Exons 20934..21467

Seq. ID OJ000209_16.0418.C12
 Strand +
 End 21853
 Method GENSCAN
 End 21467
 Score 1

Seq. No. 50835
 Gene No. 107781
 Start 20934
 Name OJ000209_16.0418.C12.o4.np
 Start 20934
 GI 6498465
 Exons 20934..21464

Seq. ID OJ000209_16.0418.C12
 Strand +
 End 21853
 Method AAT/NAP
 End 21464
 Score 890

GI Descrip. (AP000816) hypothetical protein [Oryza sativa]

Seq. No. 50835
 Gene No. 107781
 Start 20934
 Name OJ000209_16.0418.C12.o4.gp
 Start 21338
 GI uC-osf1M202089h11b1
 Exons 21338..21853

Seq. ID OJ000209_16.0418.C12
 Strand +
 End 21853
 Method AAT/GAP
 End 21853
 Score 1004

GI Descrip. '3273244/dbj|AB004814|AB004814 1.0e-125 Oryza sativa DNA for NLS receptor, complete cds'

Seq. No. 50835
 Gene No. 107782
 Start 22811
 Name OJ000209_16.0418.C12.o5.gs
 Start 22811
 GI none
 Exons 22811..22921, 23084..23371, 24234..24330, 24427..24518, 24610..24741, 25125..25288, 26403..26493, 26983..27110, 27229..27592

Seq. ID OJ000209_16.0418.C12
 Strand +
 End 28113
 Method GENSCAN
 End 27592
 Score .79

Seq. No. 50835
 Gene No. 107782
 Start 22811
 Name OJ000209_16.0418.C12.o5.gp
 Start 23028
 GI 21_1.R1084
 Exons 23028..23371, 24234..24330, 24427..24518, 24610..24741, 24856..25041, 25125..25288, 25395..25473, 26365..26493, 26983..27110, 27229..27598, 27723..28113

Seq. ID OJ000209_16.0418.C12
 Strand +
 End 28113
 Method AAT/GAP
 End 28113
 Score 4000

GI Descrip. '3273243/dbj|BAA31165| 0.0e+00 (AB004660) NLS receptor [Oryza sativa] >gi_3273245_dbj_BAA31166_ (AB004814) NLS receptor [Oryza sativa]'

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107782	Strand	+
Start	22811	End	28113
Name	OJ000209_16.0418.C12.o5.np	Method	AAT/NAP
Start	23162	End	27589
GI	3273243	Score	2416
Exons	23162..23371, 24234..24330, 24427..24518, 24610..24741, 24856..25041, 25125..25288, 25395..25473, 26365..26493, 26983..27110, 27229..27589		
GI Descrip.	(AB004660) NLS receptor [Oryza sativa] gi 3273245 dbj BAA31166.1 (AB004814) NLS receptor [Oryza sativa] gi 6498466 dbj BAA87855.1 (AP000816) ESTs AU067986(C11414),C74825(E60076) correspond to a region of the predicted gene.; Similar to NLS receptor. (AB004660) [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107783	Strand	+
Start	28505	End	28966
Name	OJ000209_16.0418.C12.o6.gp	Method	AAT/GAP
Start	28505	End	28966
GI	uC-osroM202029d11a1	Score	924
Exons	28505..28966		
GI Descrip.	'5922604/dbj BAA84605.1 1.0e-14 (AP000492) hypothetical protein [Oryza sativa]'		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107784	Strand	+
Start	35399	End	36862
Name	OJ000209_16.0418.C12.o7.gs	Method	GENSCAN
Start	35399	End	36862
GI	none	Score	.5
Exons	35399..35822, 35878..36025, 36045..36351, 36803..36862		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107784	Strand	+
Start	35399	End	36862
Name	OJ000209_16.0418.C12.o7.np	Method	AAT/NAP
Start	35399	End	36352
GI	5922605	Score	1545
Exons	35399..36352		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6498468 dbj BAA87857.1 (AP000816) hypothetical protein [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107785	Strand	+
Start	40108	End	40660
Name	OJ000209_16.0418.C12.o9.np	Method	AAT/NAP
Start	40108	End	40660
GI	5922607	Score	875
Exons	40108..40285, 40339..40660		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107785	Strand	+
Start	40108	End	40660

Name	OJ000209_16.0418.C12.o10.np	Method	AAT/NAP
Start	40255	End	40660
GI	5922607	Score	605
Exons	40255..40285, 40339..40660		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107786	Strand	+
Start	45462	End	48978
Name	OJ000209_16.0418.C12.o11.gs	Method	GENSCAN
Start	45462	End	48978
GI	none	Score	.87
Exons	45462..46178, 46715..47224, 47599..48015, 48454..48978		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107786	Strand	+
Start	45462	End	48978
Name	OJ000209_16.0418.C12.o12.np	Method	AAT/NAP
Start	45462	End	48975
GI	5922609	Score	2222
Exons	45462..46073, 46715..46897, 48454..48975		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107787	Strand	-
Start	1	End	1924
Name	OJ000209_16.0418.C12.o1.np	Method	AAT/NAP
Start	1	End	1924
GI	6498462	Score	1275
Exons	1..21, 149..610, 1611..1924		
GI Descrip.	(AP000816) hypothetical protein [Oryza sativa] gi 7106535 dbj BAA92220.1 (AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107787	Strand	-
Start	1	End	1924
Name	OJ000209_16.0418.C12.o1.gs	Method	GENSCAN
Start	9	End	469
GI	none	Score	.82
Exons	9..14, 166..469		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107787	Strand	-
Start	1	End	1924
Name	OJ000209_16.0418.C12.o2.gs	Method	GENSCAN
Start	1649	End	1924
GI	none	Score	.83
Exons	1649..1924		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107788	Strand	-
Start	2137	End	15969
Name	OJ000209_16.0418.C12.o3.gs	Method	GENSCAN
Start	2137	End	15969
GI	none	Score	.64
Exons	2137..2246, 2854..3028, 4191..4224, 5164..7340, 7370..7799,		

8366..8768, 9438..9569, 10176..10292, 10524..10736,
13667..13810, 13841..14131, 15037..15186, 15514..15636,
15936..15969

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107788	Strand	-
Start	2137	End	15969
Name	OJ000209_16.0418.C12.o2.np	Method	AAT/NAP
Start	5163	End	7998
GI	6498463	Score	4669
Exons	5163..7799, 7943..7998		
GI Descrip.	(AP000816) Similar to putative Ser/Thr protein kinase. (AC004218) [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107788	Strand	-
Start	2137	End	15969
Name	OJ000209_16.0418.C12.o2.gp	Method	AAT/GAP
Start	8142	End	10051
GI	49017 1.R1084	Score	2081
Exons	8142..8730, 9289..9437, 9517..9760, 9923..10051		
GI Descrip.	'3912917/gb AAC78693.1 1.0e-117 (AF001308) putative NAK-like ser/thr protein kinase [Arabidopsis thaliana]'		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107788	Strand	-
Start	2137	End	15969
Name	OJ000209_16.0418.C12.o3.np	Method	AAT/NAP
Start	8365	End	15969
GI	6498464	Score	3886
Exons	8365..8730, 9290..9437, 9517..9760, 9923..10292, 10524..10736, 11495..11868, 13667..13810, 13841..14131, 15037..15186, 15514..15636, 15936..15969		
GI Descrip.	(AP000816) EST AU030604(E51294) corresponds to a region of the predicted gene.; Similar to putative NAK-like Ser/Thr protein kinase. (AF001308) [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107789	Strand	-
Start	28694	End	29677
Name	OJ000209_16.0418.C12.o6.gs	Method	GENSCAN
Start	28694	End	29660
GI	none	Score	.84
Exons	28694..29117, 29203..29660		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107789	Strand	-
Start	28694	End	29677
Name	OJ000209_16.0418.C12.o6.np	Method	AAT/NAP
Start	28697	End	29660
GI	5922604	Score	1515
Exons	28697..29117, 29203..29660		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6498467 dbj BAA87856.1 (AP000816) hypothetical protein [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
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Gene No.	107789	Strand	-
Start	28694	End	29677
Name	OJ000209_16.0418.C12.o7.gp	Method	AAT/GAP
Start	29074	End	29677
GI	uC-osroM202029d11b1	Score	1010
Exons	29074..29117, 29203..29677		
GI Descrip.	'5922604/dbj BAA84605.1 5.0e-71 (AP000492) hypothetical protein [Oryza sativa]'		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107790	Strand	-
Start	37728	End	38914
Name	OJ000209_16.0418.C12.o8.gp	Method	AAT/GAP
Start	37365	End	38914
GI	22163 1.R1084	Score	1284
Exons	37365..37792, 38653..38914		
GI Descrip.	'5922606/dbj BAA84607.1 6.0e-46 (AP000492) EST AU031699(R0618) corresponds to a region of the predicted gene.; similar to pollen specific like protein. (AL021710) [Oryza sativa]'		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107790	Strand	-
Start	37728	End	38914
Name	OJ000209_16.0418.C12.o8.gs	Method	GENSCAN
Start	37728	End	38908
GI	none	Score	.62
Exons	37728..37792, 38653..38908		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107790	Strand	-
Start	37728	End	38914
Name	OJ000209_16.0418.C12.o8.np	Method	AAT/NAP
Start	37731	End	38908
GI	5922606	Score	519
Exons	37731..37792, 38653..38908		
GI Descrip.	(AP000492) EST AU031699(R0618) corresponds to a region of the predicted gene.; similar to pollen specific like protein. (AL021710) [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107791	Strand	-
Start	42426	End	44574
Name	OJ000209_16.0418.C12.o10.gs	Method	GENSCAN
Start	42426	End	44574
GI	none	Score	.48
Exons	42426..42770, 42930..43018, 43809..43878, 44356..44574		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107791	Strand	-
Start	42426	End	44574
Name	OJ000209_16.0418.C12.o11.np	Method	AAT/NAP
Start	42429	End	44574
GI	5922608	Score	1187
Exons	42429..42770, 42930..43018, 43809..43878, 44356..44574		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
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Gene No.	107792	Strand	-
Start	49306	End	52570
Name	OJ000209_16.0418.C12.o13.np	Method	AAT/NAP
Start	49306	End	52570
GI	5922610	Score	1255
Exons	49306..49398, 49498..49694, 50555..50674, 51790..52054, 52136..52208, 52512..52570		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa]		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o7.ts	Method	TBLASTX:Soybean
Start	272	End	532
GI	none	Score	126
Exons	272..364, 356..532, 381..500		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o3.tm	Method	TBLASTX:Maize
Start	333	End	1953
GI	none	Score	361
Exons	333..611, 335..613, 338..613, 535..648, 1609..1653, 1611..1652, 1611..1685, 1688..1927, 1719..1952, 1724..1927, 1837..1953		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o4.tc	Method	TBLASTX:Cress
Start	356	End	602
GI	none	Score	77
Exons	356..601, 371..586, 381..602		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o5.tc	Method	TBLASTX:Cress
Start	1611	End	1894
GI	none	Score	169
Exons	1611..1685, 1688..1894		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o6.ts	Method	TBLASTX:Soybean
Start	1614	End	1939
GI	none	Score	52
Exons	1614..1685, 1688..1780, 1889..1939		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o8.tc	Method	TBLASTX:Cress
Start	5286	End	8694
GI	none	Score	42
Exons	5286..5534, 8362..8391, 8363..8392, 8390..8515, 8464..8514,		

8537..8671, 8548..8694

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o1.ts	Method	TBLASTX:Soybean
Start	5368	End	10230
GI	none	Score	225
Exons	5368..5745, 5376..5762, 5754..5948, 5755..5946, 5943..6128, 5965..6126, 6201..6275, 6205..6264, 6327..6395, 8560..8709, 9290..9445, 9351..9443, 9514..9654, 9516..9740, 10001..10051, 10054..10119, 10117..10230		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o1.tm	Method	TBLASTX:Maize
Start	5376	End	10230
GI	none	Score	238
Exons	5376..5762, 5395..5754, 5758..5925, 5763..5948, 5943..6128, 5965..5985, 6031..6129, 6201..6275, 6208..6267, 8560..8709, 9290..9445, 9354..9443, 9514..9654, 9516..9740, 10001..10051, 10005..10061, 10054..10119, 10055..10135, 10117..10230, 10118..10216		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o2.tc	Method	TBLASTX:Cress
Start	5562	End	9737
GI	none	Score	102
Exons	5562..5759, 5629..5748, 5766..6029, 5767..5985, 9285..9443, 9290..9445, 9514..9627, 9516..9737		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o4.tw	Method	TBLASTX:Wheat
Start	5565	End	9581
GI	none	Score	90
Exons	5565..5756, 9264..9431, 9284..9442, 9484..9579, 9516..9581		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o2.tw	Method	TBLASTX:Wheat
Start	5782	End	10119
GI	none	Score	163
Exons	5782..5925, 5784..5939, 5943..6128, 5965..6129, 9582..9740, 9989..10051, 10054..10119		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o3.tc	Method	TBLASTX:Cress
Start	6546	End	7022
GI	none	Score	68

Exons 6546..6812, 6547..6672, 6724..6813, 6828..7022

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o5.ts	Method	TBLASTX:Soybean
Start	6546	End	6872
GI	none	Score	91
Exons	6546..6749, 6547..6672, 6735..6812, 6828..6872		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o4.tm	Method	TBLASTX:Maize
Start	6820	End	7194
GI	none	Score	95
Exons	6820..6933, 6822..7193, 6828..6947, 6994..7194		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o4.ts	Method	TBLASTX:Soybean
Start	6987	End	7400
GI	none	Score	109
Exons	6987..7184, 7051..7185, 7197..7400, 7204..7329		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o11.tm	Method	TBLASTX:Maize
Start	8165	End	8529
GI	none	Score	41
Exons	8165..8206, 8165..8206, 8221..8256, 8226..8267, 8274..8306, 8275..8307, 8368..8391, 8381..8527, 8392..8529, 8416..8529		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o6.tc	Method	TBLASTX:Cress
Start	10007	End	10297
GI	none	Score	192
Exons	10007..10045, 10069..10296, 10070..10297		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o3.tw	Method	TBLASTX:Wheat
Start	10120	End	10594
GI	none	Score	236
Exons	10120..10338, 10120..10290, 10121..10294, 10525..10593, 10526..10594		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o8.tm	Method	TBLASTX:Maize
Start	10677	End	11753

GI	none	Score	87
Exons	10677..10739, 10678..10737, 11487..11753, 11497..11751, 11505..11753		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o7.tm	Method	TBLASTX:Maize
Start	21101	End	21479
GI	none	Score	367
Exons	21101..21472, 21114..21473, 21288..21479		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o2.tm	Method	TBLASTX:Maize
Start	23150	End	27570
GI	none	Score	69
Exons	23150..23218, 23154..23195, 23159..23347, 23314..23346, 24230..24328, 24231..24329, 24234..24329, 24239..24340, 24419..24514, 24423..24518, 24425..24526, 24604..24741, 24605..24697, 24608..24742, 24610..24741, 24853..25041, 24855..25037, 25124..25291, 25125..25271, 25155..25262, 25395..25472, 25395..25472, 25396..25479, 26359..26502, 26361..26495, 26362..26502, 26364..26492, 26407..26487, 26982..27113, 26982..27113, 26983..27123, 27226..27363, 27227..27364, 27230..27364, 27349..27471, 27359..27538, 27362..27556, 27544..27570		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o1.tc	Method	TBLASTX:Cress
Start	23162	End	27514
GI	none	Score	168
Exons	23162..23326, 24230..24328, 24234..24329, 24423..24518, 24425..24538, 24608..24697, 24609..24716, 24610..24741, 24853..25044, 24853..25044, 24855..25046, 25128..25271, 25130..25285, 25146..25262, 25159..25287, 25160..25303, 25396..25473, 25401..25469, 26359..26505, 26361..26483, 26362..26493, 26386..26475, 26982..27113, 26982..27113, 26983..27117, 27201..27329, 27207..27335, 27226..27348, 27227..27352, 27352..27471, 27364..27477, 27365..27514, 27368..27505		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o2.ts	Method	TBLASTX:Soybean
Start	24225	End	27514
GI	none	Score	134
Exons	24225..24329, 24228..24326, 24233..24328, 24423..24518, 24425..24526, 24609..24722, 24610..24741, 24621..24743, 24665..24745, 24853..25044, 24855..25043, 25127..25282, 25128..25271, 25155..25262, 25396..25479, 25398..25475, 26333..26476, 26361..26495, 26361..26480, 26362..26505, 26407..26487, 26982..27110, 26983..27123, 27005..27112,		

27226..27351, 27227..27358, 27364..27468, 27365..27514,
27365..27514

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o1.tw	Method	TBLASTX:Wheat
Start	25125	End	27570
GI	none	Score	94
Exons	25125..25262, 26398..26502, 26400..26492, 26405..26494, 26407..26475, 26982..27113, 26982..27113, 26983..27123, 27010..27090, 27207..27362, 27222..27359, 27226..27363, 27227..27364, 27358..27471, 27359..27532, 27372..27491, 27374..27514, 27535..27570		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o10.tm	Method	TBLASTX:Maize
Start	29409	End	29679
GI	none	Score	220
Exons	29409..29435, 29472..29678, 29473..29679		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o9.tm	Method	TBLASTX:Maize
Start	38650	End	38921
GI	none	Score	245
Exons	38650..38910, 38654..38911, 38654..38911, 38655..38921		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o9.tc	Method	TBLASTX:Cress
Start	38654	End	38909
GI	none	Score	127
Exons	38654..38908, 38655..38909		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o8.ts	Method	TBLASTX:Soybean
Start	38690	End	38912
GI	none	Score	70
Exons	38690..38908, 38699..38908, 38706..38912		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o5.tm	Method	TBLASTX:Maize
Start	46889	End	47347
GI	none	Score	107
Exons	46889..46960, 46889..46945, 46900..46965, 46900..46962, 46957..47004, 46958..47005, 46961..47005, 46962..47006, 47012..47224, 47023..47223, 47028..47225, 47309..47347, 47311..47346		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o7.tc	Method	TBLASTX:Cress
Start	46922	End	47658
GI	none	Score	54
Exons	46922..47005, 46930..46983, 47053..47214, 47057..47224, 47309..47371, 47311..47373, 47596..47658, 47604..47651		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o3.ts	Method	TBLASTX:Soybean
Start	47309	End	48507
GI	none	Score	102
Exons	47309..47371, 47593..47730, 47596..48015, 47598..48008, 47821..48015, 48442..48507, 48450..48500		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o6.tm	Method	TBLASTX:Maize
Start	47610	End	48012
GI	none	Score	279
Exons	47610..47945, 47610..47945, 47611..47964, 47821..47982, 47965..48012		

Seq. No.	50835	Seq. ID	OJ000209_16.0418.C12
Gene No.	107793	Strand	-
Start	53071	End	53811
Name	OJ000209_16.0418.C12.o14.np	Method	AAT/NAP
Start	53071	End	53811
GI	5852084	Score	91
Exons	53071..53163, 53788..53811		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	50836	Seq. ID	OJ000209_16.0418.C13
Gene No.	107794	Strand	-
Start	229	End	635
Name	OJ000209_16.0418.C13.o1.gs	Method	GENSCAN
Start	229	End	635
GI	none	Score	.56
Exons	229..408, 496..635		

Seq. No.	50837	Seq. ID	OJ000209_17.0419.C1
Gene No.	107795	Strand	+
Start	80	End	5762
Name	OJ000209_17.0419.C1.o1.gs	Method	GENSCAN
Start	80	End	5527
GI	none	Score	.87
Exons	80..252, 1165..1245, 2414..2514, 2680..2901, 2992..3385, 4163..5527		

Seq. No.	50837	Seq. ID	OJ000209_17.0419.C1
Gene No.	107795	Strand	+
Start	80	End	5762

Name	OJ000209_17.0419.C1.o1.gp	Method	AAT/GAP
Start	167	End	2464
GI	none	Score	878
Exons	167..252, 1022..1060, 1165..1245, 1499..1636, 1846..1962, 2414..2464		

Seq. No.	50837	Seq. ID	OJ000209_17.0419.C1
Gene No.	107795	Strand	+
Start	80	End	5762
Name	OJ000209_17.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	3136	End	3375
GI	none	Score	223
Exons	3136..3375, 3139..3375		

Seq. No.	50837	Seq. ID	OJ000209_17.0419.C1
Gene No.	107795	Strand	+
Start	80	End	5762
Name	OJ000209_17.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	4161	End	4486
GI	none	Score	52
Exons	4161..4193, 4163..4195, 4176..4247, 4200..4244, 4247..4336, 4274..4411, 4303..4410, 4395..4484, 4396..4485, 4397..4486		

Seq. No.	50837	Seq. ID	OJ000209_17.0419.C1
Gene No.	107795	Strand	+
Start	80	End	5762
Name	OJ000209_17.0419.C1.o4.tm	Method	TBLASTX:Maize
Start	4713	End	5154
GI	none	Score	48
Exons	4713..4763, 4717..4764, 4723..4764, 4730..4768, 4766..4921, 4794..5003, 4824..5024, 4837..5040, 4849..5040, 4904..5047, 4970..5044, 5086..5154		

Seq. No.	50837	Seq. ID	OJ000209_17.0419.C1
Gene No.	107795	Strand	+
Start	80	End	5762
Name	OJ000209_17.0419.C1.o2.gp	Method	AAT/GAP
Start	5204	End	5762
GI	none	Score	776
Exons	5204..5596, 5721..5762		

Seq. No.	50837	Seq. ID	OJ000209_17.0419.C1
Gene No.	107795	Strand	+
Start	80	End	5762
Name	OJ000209_17.0419.C1.o3.tm	Method	TBLASTX:Maize
Start	5210	End	5502
GI	none	Score	194
Exons	5210..5419, 5219..5272, 5224..5418, 5324..5419, 5416..5496, 5416..5472, 5470..5502		

Seq. No.	50838	Seq. ID	OJ000209_17.0419.C3
Gene No.	107796	Strand	+
Start	336	End	2678
Name	OJ000209_17.0419.C3.o1.gp	Method	AAT/GAP
Start	336	End	1472
GI	415_1.R1084	Score	642
Exons	336..656, 1387..1472		

GI Descrip. '3021357/emb|CAA06339.1| 1.0e-25 (AJ005082) UDP-galactose 4-epimerase [Cyamopsis tetragonoloba]'

Seq. No.	50838	Seq. ID	OJ000209_17.0419.C3
Gene No.	107796	Strand	+
Start	336	End	2678
Name	OJ000209_17.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	461	End	1442
GI	none	Score	251
Exons	461..658, 462..659, 1386..1442		

Seq. No.	50838	Seq. ID	OJ000209_17.0419.C3
Gene No.	107796	Strand	+
Start	336	End	2678
Name	OJ000209_17.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	461	End	2128
GI	none	Score	224
Exons	461..658, 480..659, 1384..1431, 1386..1442, 1952..2119, 1988..2128, 1990..2127		

Seq. No.	50838	Seq. ID	OJ000209_17.0419.C3
Gene No.	107796	Strand	+
Start	336	End	2678
Name	OJ000209_17.0419.C3.o1.gs	Method	GENSCAN
Start	462	End	2670
GI	none	Score	.92
Exons	462..656, 1387..1436, 1990..2125, 2626..2670		

Seq. No.	50838	Seq. ID	OJ000209_17.0419.C3
Gene No.	107796	Strand	+
Start	336	End	2678
Name	OJ000209_17.0419.C3.o1.np	Method	AAT/NAP
Start	471	End	2678
GI	7437270	Score	436
Exons	471..656, 1387..1436, 1990..2125, 2626..2678		
GI Descrip.	UDPglucose 4-epimerase (EC 5.1.3.2) (clone GEPI48) - guar gi 3021357 emb CAA06339.1 (AJ005082) UDP-galactose 4-epimerase [Cyamopsis tetragonoloba]		

Seq. No.	50838	Seq. ID	OJ000209_17.0419.C3
Gene No.	107796	Strand	+
Start	336	End	2678
Name	OJ000209_17.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	474	End	2121
GI	none	Score	192
Exons	474..659, 488..649, 1988..2119, 1990..2121		

Seq. No.	50838	Seq. ID	OJ000209_17.0419.C3
Gene No.	107796	Strand	+
Start	336	End	2678
Name	OJ000209_17.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	1966	End	2678
GI	none	Score	67
Exons	1966..2091, 1966..2121, 1988..2128, 2622..2678, 2623..2676		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107797	Strand	+

Start	1	End	3453
Name	OJ000209_17.0419.C4.o1.gp	Method	AAT/GAP
Start	1	End	1237
GI	12752 1.R1084	Score	1412
Exons	1..147, 227..311, 415..497, 621..712, 815..1237		
GI Descrip.	'3021357 emb CAA06339.1 2.0e-88 (AJ005082) UDP-galactose 4-epimerase [Cyamopsis tetragonoloba]'		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107797	Strand	+
Start	1	End	3453
Name	OJ000209_17.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	911
GI	7437224	Score	604
Exons	1..147, 227..294, 404..497, 621..712, 815..911		
GI Descrip.	UDPgucose 4-epimerase (EC 5.1.3.2) F8M12.10 - Arabidopsis thaliana gi 3513739 gb AAC33955.1 (AF080118) Similar to uridine diphosphate glucose epimerase; F8M12.10 [Arabidopsis thaliana]		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107797	Strand	+
Start	1	End	3453
Name	OJ000209_17.0419.C4.o1.gs	Method	GENSCAN
Start	61	End	3453
GI	none	Score	.89
Exons	61..147, 227..311, 415..497, 621..712, 1334..1467, 2825..3453		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107798	Strand	-
Start	2803	End	3519
Name	OJ000209_17.0419.C4.o2.np	Method	AAT/NAP
Start	2803	End	3519
GI	7442186	Score	349
Exons	2803..3201, 3361..3519		
GI Descrip.	pathogenesis-related protein homolog F3L17.40 - Arabidopsis thaliana gi 5262758 emb CAB45906.1 (AL080283) pathogenesis-related protein homolog [Arabidopsis thaliana] gi 7270050 emb CAB79865.1 (AL161579) pathogenesis-related protein homolog [Arabidopsis thaliana]		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107799	Strand	-
Start	3930	End	5264
Name	OJ000209_17.0419.C4.o2.gs	Method	GENSCAN
Start	3930	End	5264
GI	none	Score	.77
Exons	3930..3944, 4664..4878, 5189..5264		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107800	Strand	-
Start	9715	End	9792
Name	OJ000209_17.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	1	End	884
GI	none	Score	195
Exons	1..150, 3..101, 4..153, 24..161, 83..190, 226..297, 227..298, 413..493, 414..497, 618..713, 813..884, 815..880		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107800	Strand	-
Start	9715	End	9792
Name	OJ000209_17.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	1	End	904
GI	none	Score	233
Exons	1..150, 3..161, 3..104, 226..300, 227..301, 413..496, 414..497, 418..498, 618..713, 620..667, 804..887, 804..896, 812..889, 815..904		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107800	Strand	-
Start	9715	End	9792
Name	OJ000209_17.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	1	End	884
GI	none	Score	174
Exons	1..150, 1..90, 3..92, 187..288, 227..292, 234..290, 413..493, 414..497, 618..713, 813..884, 815..880		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107800	Strand	-
Start	9715	End	9792
Name	OJ000209_17.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	2804	End	3204
GI	none	Score	66
Exons	2804..2863, 2806..2862, 2872..3063, 2882..3109, 3073..3204		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107800	Strand	-
Start	9715	End	9792
Name	OJ000209_17.0419.C4.o2.tc	Method	TBLASTX:Cress
Start	2806	End	3214
GI	none	Score	60
Exons	2806..2862, 2807..2863, 2863..3009, 2864..2941, 3022..3063, 3023..3064, 3073..3213, 3074..3214		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107800	Strand	-
Start	9715	End	9792
Name	OJ000209_17.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	2806	End	3210
GI	none	Score	150
Exons	2806..3039, 2807..3040, 3037..3057, 3073..3210		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107800	Strand	-
Start	9715	End	9792
Name	OJ000209_17.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	2806	End	3204
GI	none	Score	60
Exons	2806..2862, 2807..2863, 2870..3034, 2872..3033, 3034..3063, 3073..3204		

Seq. No.	50839	Seq. ID	OJ000209_17.0419.C4
Gene No.	107800	Strand	-
Start	9715	End	9792
Name	OJ000209_17.0419.C4.o4.np	Method	AAT/NAP

Start	9715	End	9792
GI	6630699	Score	82
Exons	9715..9792		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	50840	Seq. ID	OJ000209_17.0419.C7
Gene No.	107801	Strand	+
Start	1	End	116
Name	OJ000209_17.0419.C7.o1.gp	Method	AAT/GAP
Start	1	End	116
GI	LIB3477-003-P1-K1-E9	Score	173
Exons	1..116		
GI Descrip.	'2498586/sp Q40638 MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	50840	Seq. ID	OJ000209_17.0419.C7
Gene No.	107802	Strand	+
Start	3620	End	6793
Name	OJ000209_17.0419.C7.o2.gp	Method	AAT/GAP
Start	3505	End	5590
GI	22975_1.R1084	Score	1140
Exons	3505..3739, 5244..5590		
GI Descrip.	'4455349/emb CAB36759.1 5.0e-16 (AL035524) putative protein [Arabidopsis thaliana]'		

Seq. No.	50840	Seq. ID	OJ000209_17.0419.C7
Gene No.	107802	Strand	+
Start	3620	End	6793
Name	OJ000209_17.0419.C7.o2.gs	Method	GENSCAN
Start	3620	End	6793
GI	none	Score	.73
Exons	3620..3739, 5244..5777, 6260..6378, 6613..6793		

Seq. No.	50840	Seq. ID	OJ000209_17.0419.C7
Gene No.	107802	Strand	+
Start	3620	End	6793
Name	OJ000209_17.0419.C7.o1.np	Method	AAT/NAP
Start	5142	End	6690
GI	7486949	Score	336
Exons	5142..5354, 5394..5552, 5580..5777, 6284..6424, 6613..6690		
GI Descrip.	hypothetical protein T13J8.10 - Arabidopsis thaliana gi 4455349 emb CAB36759.1 (AL035524) putative protein [Arabidopsis thaliana] gi 7269644 emb CAB79592.1 (AL161572) putative protein [Arabidopsis thaliana]		

Seq. No.	50840	Seq. ID	OJ000209_17.0419.C7
Gene No.	107803	Strand	-
Start	6646	End	7162
Name	OJ000209_17.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	5237	End	5678
GI	none	Score	86
Exons	5237..5326, 5242..5388, 5243..5404, 5244..5387, 5244..5348, 5248..5388, 5250..5348, 5358..5579, 5397..5564, 5467..5565, 5582..5629, 5583..5627, 5628..5678, 5629..5676, 5630..5677		

Seq. No.	50840	Seq. ID	OJ000209_17.0419.C7
Gene No.	107803	Strand	-
Start	6646	End	7162
Name	OJ000209_17.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	5238	End	5531
GI	none	Score	165
Exons	5238..5453, 5274..5393, 5448..5531		

Seq. No.	50840	Seq. ID	OJ000209_17.0419.C7
Gene No.	107803	Strand	-
Start	6646	End	7162
Name	OJ000209_17.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	5247	End	6695
GI	none	Score	315
Exons	5247..5561, 5271..5561, 5634..5693, 5639..5695, 5694..5777, 6320..6424, 6607..6690, 6610..6687, 6612..6695		

Seq. No.	50840	Seq. ID	OJ000209_17.0419.C7
Gene No.	107803	Strand	-
Start	6646	End	7162
Name	OJ000209_17.0419.C7.o3.gp	Method	AAT/GAP
Start	6646	End	7162
GI	none	Score	986
Exons	6646..7162		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107804	Strand	+
Start	145	End	1588
Name	OJ000209_17.0419.C10.o1.gp	Method	AAT/GAP
Start	145	End	1203
GI	LIB3432-059-P1-K1-C6	Score	646
Exons	145..420, 1113..1203		
GI Descrip.	'2062705/gb U90552 HSU90552 2.0e-09 Human butyrophilin (BTF5) mRNA, complete cds'		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107804	Strand	+
Start	145	End	1588
Name	OJ000209_17.0419.C10.o1.gs	Method	GENSCAN
Start	243	End	1411
GI	none	Score	.87
Exons	243..420, 1113..1411		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107804	Strand	+
Start	145	End	1588
Name	OJ000209_17.0419.C10.o1.np	Method	AAT/NAP
Start	1247	End	1588
GI	4191783	Score	120
Exons	1247..1408, 1532..1588		
GI Descrip.	(AC005917) unknown protein [Arabidopsis thaliana]		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107805	Strand	+
Start	2726	End	5847
Name	OJ000209_17.0419.C10.o2.tm	Method	TBLASTX:Maize

Start	362	End	1422
GI	none	Score	74
Exons	362..415, 369..416, 1112..1171, 1112..1144, 1201..1308, 1214..1309, 1226..1375, 1301..1411, 1301..1408, 1306..1413, 1365..1421, 1366..1422		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107805	Strand	+
Start	2726	End	5847
Name	OJ000209_17.0419.C10.o2.gp	Method	AAT/GAP
Start	2638	End	3347
GI	none	Score	764
Exons	2638..2848, 2934..3002, 3091..3218, 3323..3347		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107805	Strand	+
Start	2726	End	5847
Name	OJ000209_17.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	2718	End	5009
GI	none	Score	65
Exons	2718..2795, 2719..2853, 2720..2857, 2931..3002, 2936..3001, 3088..3219, 3090..3224, 3320..3424, 3323..3424, 3327..3425, 3870..3941, 3872..3943, 3876..3938, 3877..3948, 4077..4223, 4078..4224, 4078..4224, 4079..4225, 4582..4680, 4583..4696, 4583..4696, 4584..4703, 4584..4700, 4876..5007, 4878..5009, 4878..5009		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107805	Strand	+
Start	2726	End	5847
Name	OJ000209_17.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	2726	End	4194
GI	none	Score	59
Exons	2726..2779, 2777..2857, 2931..2963, 2933..3001, 3084..3224, 3088..3219, 3320..3424, 3327..3425, 3872..3943, 3927..3992, 4077..4190, 4078..4194		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107805	Strand	+
Start	2726	End	5847
Name	OJ000209_17.0419.C10.o2.np	Method	AAT/NAP
Start	2726	End	5847
GI	6688428	Score	998
Exons	2726..2848, 2934..3002, 3091..3218, 3323..3422, 3878..3945, 4080..4221, 4584..4700, 4881..5017, 5799..5847		
GI Descrip.	(AJ242873) vacuolar H ⁺ -ATPase subunit C [Hordeum vulgare]		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107805	Strand	+
Start	2726	End	5847
Name	OJ000209_17.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	2726	End	5009
GI	none	Score	59
Exons	2726..2779, 2774..2857, 2789..2845, 2931..2963, 2933..3001, 3115..3219, 3117..3224, 3320..3424, 3327..3425, 3836..3943, 3872..3943, 4046..4201, 4077..4235, 4078..4224, 4563..4703, 4583..4699, 4593..4700, 4878..5009		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107805	Strand	+
Start	2726	End	5847
Name	OJ000209_17.0419.C10.o2.gs	Method	GENSCAN
Start	2726	End	5566
GI	none	Score	.86
Exons	2726..2848, 2934..3002, 3091..3218, 3323..3422, 3878..3945, 4080..4221, 4584..4700, 4881..5001, 5228..5253, 5498..5566		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107805	Strand	+
Start	2726	End	5847
Name	OJ000209_17.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	3088	End	3427
GI	none	Score	184
Exons	3088..3216, 3090..3224, 3320..3427, 3323..3424, 3327..3425		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107805	Strand	+
Start	2726	End	5847
Name	OJ000209_17.0419.C10.o3.gp	Method	AAT/GAP
Start	3887	End	5012
GI	35337_1.R1084	Score	811
Exons	3887..3945, 4080..4221, 4584..4700, 4881..5012		
GI Descrip.	'1213460 3.0e-44 (U03374) C subunit of V-ATPase [Amblyomma americanum]'		

Seq. No.	50841	Seq. ID	OJ000209_17.0419.C10
Gene No.	107805	Strand	+
Start	2726	End	5847
Name	OJ000209_17.0419.C10.o2.tc	Method	TBLASTX:Cress
Start	4563	End	5009
GI	none	Score	183
Exons	4563..4703, 4571..4702, 4878..5009		

Seq. No.	50842	Seq. ID	OJ000209_17.0419.C11
Gene No.	107806	Strand	+
Start	1	End	253
Name	OJ000209_17.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	253
GI	6636332	Score	138
Exons	1..72, 160..253		
GI Descrip.	(AF208261) vacuolar ATP synthase subunit C [Arabidopsis thaliana]		

Seq. No.	50842	Seq. ID	OJ000209_17.0419.C11
Gene No.	107807	Strand	+
Start	186	End	2318
Name	OJ000209_17.0419.C11.o2.tm	Method	TBLASTX:Maize
Start	1	End	446
GI	none	Score	102
Exons	1..72, 2..70, 158..286, 158..292, 423..446		

Seq. No.	50842	Seq. ID	OJ000209_17.0419.C11
Gene No.	107807	Strand	+
Start	186	End	2318

Name	OJ000209_17.0419.C11.o1.gp	Method	AAT/GAP
Start	186	End	663
GI	none	Score	861
Exons	186..663		
Seq. No.	50842	Seq. ID	OJ000209_17.0419.C11
Gene No.	107807	Strand	+
Start	186	End	2318
Name	OJ000209_17.0419.C11.o2.np	Method	AAT/NAP
Start	316	End	2318
GI	7452044	Score	561
Exons	316..349, 839..876, 1773..2318		
GI Descrip.	hypothetical protein F27B13.20 - Arabidopsis thaliana gi 4914402 emb CAB43653.1 (AL050352) hypothetical protein [Arabidopsis thaliana] gi 7269877 emb CAB79736.1 (AL161575) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	50842	Seq. ID	OJ000209_17.0419.C11
Gene No.	107807	Strand	+
Start	186	End	2318
Name	OJ000209_17.0419.C11.o1.gs	Method	GENSCAN
Start	831	End	2257
GI	none	Score	.95
Exons	831..914, 1577..2257		
Seq. No.	50842	Seq. ID	OJ000209_17.0419.C11
Gene No.	107807	Strand	+
Start	186	End	2318
Name	OJ000209_17.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	1801	End	2317
GI	none	Score	681
Exons	1801..1914, 1802..2317, 2023..2316		
Seq. No.	50842	Seq. ID	OJ000209_17.0419.C11
Gene No.	107807	Strand	+
Start	186	End	2318
Name	OJ000209_17.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	1804	End	2317
GI	none	Score	471
Exons	1804..2169, 1805..2170, 2162..2317, 2185..2316		
Seq. No.	50842	Seq. ID	OJ000209_17.0419.C11
Gene No.	107807	Strand	+
Start	186	End	2318
Name	OJ000209_17.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	1853	End	2113
GI	none	Score	299
Exons	1853..2113, 2023..2112		
Seq. No.	50842	Seq. ID	OJ000209_17.0419.C11
Gene No.	107807	Strand	+
Start	186	End	2318
Name	OJ000209_17.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	1922	End	2317
GI	none	Score	558
Exons	1922..2317, 1978..2316		

Seq. No.	50842	Seq. ID	OJ000209_17.0419.C11
Gene No.	107807	Strand	+
Start	186	End	2318
Name	OJ000209_17.0419.C11.o2.tc	Method	TBLASTX:Cress
Start	2174	End	2317
GI	none	Score	190
Exons	2174..2317, 2203..2295		
Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107808	Strand	+
Start	1	End	549
Name	OJ000209_17.0419.C12.o1.gp	Method	AAT/GAP
Start	1	End	549
GI	53027_1.R1084	Score	1074
Exons	1..549		
GI Descrip.	'4914402 emb CAB43653.1 2.0e-51 (AL050352) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107808	Strand	+
Start	1	End	549
Name	OJ000209_17.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	384
GI	7452044	Score	416
Exons	1..384		
GI Descrip.	hypothetical protein F27B13.20 - Arabidopsis thaliana gi 4914402 emb CAB43653.1 (AL050352) hypothetical protein [Arabidopsis thaliana] gi 7269877 emb CAB79736.1 (AL161575) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107808	Strand	+
Start	1	End	549
Name	OJ000209_17.0419.C12.o1.gs	Method	GENSCAN
Start	22	End	387
GI	none	Score	.99
Exons	22..387		
Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107809	Strand	+
Start	1003	End	6808
Name	OJ000209_17.0419.C12.o2.gs	Method	GENSCAN
Start	1003	End	6805
GI	none	Score	.84
Exons	1003..1076, 3635..3866, 3906..3973, 4130..4640, 4741..5067, 5165..5270, 5482..5582, 5889..5973, 6459..6805		
Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107809	Strand	+
Start	1003	End	6808
Name	OJ000209_17.0419.C12.o3.np	Method	AAT/NAP
Start	4411	End	6808
GI	3914239	Score	855
Exons	4411..4640, 4741..5067, 5165..5270, 6459..6808		
GI Descrip.	PROTEIN PHOSPHATASE 2C ABI2 (PP2C) gi 1945140 emb CAA70163 (Y08966) ABI2 protein phosphatase 2C [Arabidopsis thaliana] gi 1945142 emb CAA70162 (Y08965) ABI2 protein phosphatase 2C		

[Arabidopsis thaliana] gi|2564213|emb|CAA72538| (Y11840) ABI2
[Arabidopsis thaliana]

Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107809	Strand	+
Start	1003	End	6808
Name	OJ000209_17.0419.C12.o2.gp	Method	AAT/GAP
Start	4745	End	6498
GI	LIB3432-025-P1-K1-F10	Score	818
Exons	4745..5067, 5165..5270, 6460..6498		
GI Descrip.	'3242077/emb CAA05875 2.0e-34 (AJ003119) protein phosphatase 2C [Arabidopsis thaliana]'		

Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107810	Strand	-
Start	1747	End	6826
Name	OJ000209_17.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	1	End	390
GI	none	Score	416
Exons	1..126, 4..390, 6..230, 315..383		

Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107810	Strand	-
Start	1747	End	6826
Name	OJ000209_17.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	1	End	4537
GI	none	Score	369
Exons	1..294, 1..126, 3..227, 274..390, 300..395, 300..389, 328..423, 4475..4537		

Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107810	Strand	-
Start	1747	End	6826
Name	OJ000209_17.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	1	End	405
GI	none	Score	398
Exons	1..279, 1..231, 3..233, 274..405, 300..404		

Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107810	Strand	-
Start	1747	End	6826
Name	OJ000209_17.0419.C12.o2.tc	Method	TBLASTX:Cress
Start	4	End	399
GI	none	Score	357
Exons	4..276, 6..230, 301..399, 306..374		

Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107810	Strand	-
Start	1747	End	6826
Name	OJ000209_17.0419.C12.o2.np	Method	AAT/NAP
Start	1747	End	2002
GI	7496721	Score	75
Exons	1747..2002		
GI Descrip.	hypothetical protein C30E1.1 - Caenorhabditis elegans gi 2435542 gb AAB71254.1 (AF026204) C30E1.1 gene product [Caenorhabditis elegans]		

Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107810	Strand	-
Start	1747	End	6826
Name	OJ000209_17.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	4421	End	6805
GI	none	Score	137
Exons	4421..4534, 4425..4556, 4566..4643, 4738..4815, 4852..4905, 4882..5067, 4893..5066, 4939..5070, 5162..5272, 5164..5271, 5165..5272, 6427..6630, 6436..6630, 6458..6631, 6664..6798, 6707..6805		

Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107810	Strand	-
Start	1747	End	6826
Name	OJ000209_17.0419.C12.o3.ts	Method	TBLASTX:Soybean
Start	4422	End	4643
GI	none	Score	210
Exons	4422..4634, 4425..4643		

Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107810	Strand	-
Start	1747	End	6826
Name	OJ000209_17.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	4485	End	6826
GI	none	Score	211
Exons	4485..4643, 4485..4631, 4737..4970, 4738..4920, 4926..5081, 4927..5067, 5162..5206, 5164..5205, 5192..5272, 5203..5271, 5204..5272, 6436..6630, 6458..6631, 6667..6798, 6668..6826, 6678..6800, 6710..6805		

Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107810	Strand	-
Start	1747	End	6826
Name	OJ000209_17.0419.C12.o4.ts	Method	TBLASTX:Soybean
Start	4852	End	5272
GI	none	Score	49
Exons	4852..4899, 4938..5087, 4940..5005, 4999..5067, 5162..5272		

Seq. No.	50843	Seq. ID	OJ000209_17.0419.C12
Gene No.	107810	Strand	-
Start	1747	End	6826
Name	OJ000209_17.0419.C12.o2.ts	Method	TBLASTX:Soybean
Start	6482	End	6757
GI	none	Score	209
Exons	6482..6631, 6484..6630, 6525..6632, 6670..6756, 6707..6757		

Seq. No.	50844	Seq. ID	OJ000209_17.0419.C13
Gene No.	107811	Strand	+
Start	284	End	2231
Name	OJ000209_17.0419.C13.o1.gp	Method	AAT/GAP
Start	284	End	775
GI	none	Score	984
Exons	284..775		

Seq. No.	50844	Seq. ID	OJ000209_17.0419.C13
Gene No.	107811	Strand	+
Start	284	End	2231

Name	OJ000209_17.0419.C13.o1.np	Method	AAT/NAP
Start	387	End	2231
GI	6143896	Score	648
Exons	387..803, 864..1256, 1326..2231		
GI Descrip.	(AC010718) putative translation initiation factor IF-2 [Arabidopsis thaliana]		

Seq. No.	50844	Seq. ID	OJ000209_17.0419.C13
Gene No.	107811	Strand	+
Start	284	End	2231
Name	OJ000209_17.0419.C13.o1.gs	Method	GENSCAN
Start	465	End	1929
GI	none	Score	.85
Exons	465..1929		

Seq. No.	50844	Seq. ID	OJ000209_17.0419.C13
Gene No.	107811	Strand	+
Start	284	End	2231
Name	OJ000209_17.0419.C13.o3.gp	Method	AAT/GAP
Start	1838	End	2076
GI	3760378	Score	448
Exons	1838..2076		

Seq. No.	50844	Seq. ID	OJ000209_17.0419.C13
Gene No.	107812	Strand	-
Start	852	End	1611
Name	OJ000209_17.0419.C13.o2.gp	Method	AAT/GAP
Start	852	End	1611
GI	none	Score	1472
Exons	852..1611		

Seq. No.	50844	Seq. ID	OJ000209_17.0419.C13
Gene No.	107813	Strand	
Start	1928	End	2076
Name	OJ000209_17.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	1928	End	2076
GI	none	Score	222
Exons	1928..2074, 1929..2075, 1987..2076		

Seq. No.	50845	Seq. ID	OJ000209_17.0419.C14
Gene No.	107814	Strand	+
Start	1	End	1342
Name	OJ000209_17.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	1342
GI	6143896	Score	981
Exons	1..1097, 1193..1342		
GI Descrip.	(AC010718) putative translation initiation factor IF-2 [Arabidopsis thaliana]		

Seq. No.	50845	Seq. ID	OJ000209_17.0419.C14
Gene No.	107814	Strand	+
Start	1	End	1342
Name	OJ000209_17.0419.C14.o1.gp	Method	AAT/GAP
Start	2	End	371
GI	3760378	Score	681
Exons	2..371		

Seq. No.	50845	Seq. ID	OJ000209_17.0419.C14
Gene No.	107814	Strand	+
Start	1	End	1342
Name	OJ000209_17.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	101	End	478
GI	none	Score	343
Exons	101..286, 120..377, 151..378, 313..372, 443..478		

Seq. No.	50845	Seq. ID	OJ000209_17.0419.C14
Gene No.	107814	Strand	+
Start	1	End	1342
Name	OJ000209_17.0419.C14.o1.gs	Method	GENSCAN
Start	144	End	1300
GI	none	Score	.95
Exons	144..1097, 1193..1300		

Seq. No.	50845	Seq. ID	OJ000209_17.0419.C14
Gene No.	107814	Strand	+
Start	1	End	1342
Name	OJ000209_17.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	579	End	929
GI	none	Score	432
Exons	579..929, 595..657, 672..929		

Seq. No.	50845	Seq. ID	OJ000209_17.0419.C14
Gene No.	107814	Strand	+
Start	1	End	1342
Name	OJ000209_17.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	717	End	1100
GI	none	Score	129
Exons	717..842, 719..841, 906..1100, 929..1042		

Seq. No.	50845	Seq. ID	OJ000209_17.0419.C14
Gene No.	107814	Strand	+
Start	1	End	1342
Name	OJ000209_17.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	939	End	1300
GI	none	Score	95
Exons	939..998, 944..1000, 990..1100, 998..1099, 1183..1296, 1190..1297, 1190..1300		

Seq. No.	50845	Seq. ID	OJ000209_17.0419.C14
Gene No.	107814	Strand	+
Start	1	End	1342
Name	OJ000209_17.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	1007	End	1303
GI	none	Score	151
Exons	1007..1108, 1008..1100, 1023..1109, 1183..1299, 1190..1303		

Seq. No.	50845	Seq. ID	OJ000209_17.0419.C14
Gene No.	107814	Strand	+
Start	1	End	1342
Name	OJ000209_17.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	1016	End	1303
GI	none	Score	134
Exons	1016..1108, 1017..1100, 1026..1109, 1042..1104, 1183..1299, 1190..1303, 1190..1303		

Seq. No.	50846	Seq. ID	OJ000209_17.0419.C15
Gene No.	107815	Strand	+
Start	1	End	618
Name	OJ000209_17.0419.C15.o1.gp	Method	AAT/GAP
Start	1	End	618
GI	41287_1.R1084	Score	976
Exons	1..24, 132..618		
GI Descrip.	'4322304/gb AAD16006.1 4.0e-24 (AF078035) translation initiation factor IF2 [Homo sapiens]'		

Seq. No.	50847	Seq. ID	OJ000209_17.0419.C19
Gene No.	107816	Strand	-
Start	46	End	771
Name	OJ000209_17.0419.C19.o1.gs	Method	GENSCAN
Start	46	End	771
GI	none	Score	.43
Exons	46..771		

Seq. No.	50848	Seq. ID	OJ000209_17.0419.C20
Gene No.	107817	Strand	-
Start	806	End	903
Name	OJ000209_17.0419.C20.o1.gs	Method	GENSCAN
Start	806	End	903
GI	none	Score	.47
Exons	806..903		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107818	Strand	-
Start	957	End	1409
Name	OJ000209_17.0419.C21.o1.gp	Method	AAT/GAP
Start	957	End	1409
GI	none	Score	845
Exons	957..1409		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107819	Strand	-
Start	1375	End	5672
Name	OJ000209_17.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	1274	End	4988
GI	none	Score	84
Exons	1274..1297, 1334..1444, 1336..1494, 1350..1445, 1351..1455, 1450..1590, 1454..1669, 1463..1669, 1789..1926, 1794..1925, 1805..1930, 1813..1929, 2373..2438, 2375..2437, 2536..2652, 2537..2638, 2731..2880, 2733..2882, 2750..2881, 2951..3040, 2952..3041, 2953..3051, 2954..3055, 3123..3194, 3128..3190, 3331..3396, 3337..3402, 3489..3560, 3490..3564, 3493..3561, 3640..3738, 3641..3739, 3642..3740, 3869..4018, 3873..4019, 3873..4022, 3874..4020, 3910..4032, 4107..4178, 4108..4179, 4109..4180, 4111..4179, 4284..4319, 4753..4797, 4755..4814, 4900..4986, 4904..4987, 4907..4987, 4908..4988		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107819	Strand	-
Start	1375	End	5672
Name	OJ000209_17.0419.C21.o2.tw	Method	TBLASTX:Wheat
Start	1365	End	1582

GI	none	Score	103
Exons	1365..1472, 1367..1501, 1375..1500, 1480..1581, 1532..1582		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107819	Strand	-
Start	1375	End	5672
Name	OJ000209_17.0419.C21.o2.gs	Method	GENSCAN
Start	1375	End	5658
GI	none	Score	.79
Exons	1375..1668, 1789..1931, 2377..2437, 2536..2618, 2754..2880, 2953..3051, 3236..3255, 3336..3397, 3490..3560, 3643..3738, 3872..4020, 4109..4178, 4755..4795, 4905..5012, 5534..5658		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107819	Strand	-
Start	1375	End	5672
Name	OJ000209_17.0419.C21.o1.np	Method	AAT/NAP
Start	1402	End	4980
GI	6648157	Score	1316
Exons	1402..1668, 1789..1931, 2377..2437, 2536..2618, 2754..2880, 2953..3037, 3127..3190, 3336..3397, 3490..3560, 3643..3738, 3872..4020, 4109..4178, 4755..4795, 4905..4980		
GI Descrip.	(AC010926) putative casein kinase I [Arabidopsis thaliana]		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107819	Strand	-
Start	1375	End	5672
Name	OJ000209_17.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	2542	End	3560
GI	none	Score	97
Exons	2542..2652, 2543..2623, 2560..2667, 2731..2898, 2750..2881, 2951..3034, 2953..3051, 2954..3055, 3123..3194, 3127..3201, 3127..3195, 3337..3402, 3338..3382, 3489..3515, 3513..3560		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107819	Strand	-
Start	1375	End	5672
Name	OJ000209_17.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	2776	End	3372
GI	none	Score	107
Exons	2776..2898, 2798..2881, 2953..3051, 2954..3055, 3123..3194, 3127..3201, 3331..3372		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107819	Strand	-
Start	1375	End	5672
Name	OJ000209_17.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	2833	End	4983
GI	none	Score	123
Exons	2833..2898, 2953..3051, 2954..3055, 3123..3194, 3127..3201, 3127..3216, 3337..3402, 3338..3382, 3489..3560, 3496..3561, 3640..3738, 3641..3733, 3643..3735, 3869..4018, 3870..4019, 3910..4023, 4106..4177, 4107..4178, 4111..4179, 4749..4814, 4750..4797, 4900..4983, 4904..4981		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107819	Strand	-

Start	1375	End	5672
Name	OJ000209_17.0419.C21.o2.gp		Method AAT/GAP
Start	2953	End	3397
GI	21836_1.R1084	Score	376
Exons	2953..3037, 3127..3190, 3336..3397		
GI Descrip.	'4538939/emb CAB39675.1 5.0e-66 (AL049483) Col-0 casein kinase I-like protein [Arabidopsis thaliana]'		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107819	Strand	-
Start	1375	End	5672
Name	OJ000209_17.0419.C21.o3.gp		Method AAT/GAP
Start	2954	End	3560
GI	21836_1.R1084	Score	443
Exons	2954..3037, 3127..3190, 3336..3397, 3490..3560		
GI Descrip.	'4538939/emb CAB39675.1 5.0e-66 (AL049483) Col-0 casein kinase I-like protein [Arabidopsis thaliana]'		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107819	Strand	-
Start	1375	End	5672
Name	OJ000209_17.0419.C21.o2.tc		Method TBLASTX:Cress
Start	3638	End	4981
GI	none	Score	98
Exons	3638..3739, 3640..3738, 3869..4018, 3873..4019, 3873..4022, 3874..4020, 4107..4178, 4108..4179, 4753..4797, 4755..4814, 4900..4980, 4904..4981		

Seq. No.	50849	Seq. ID	OJ000209_17.0419.C21
Gene No.	107819	Strand	-
Start	1375	End	5672
Name	OJ000209_17.0419.C21.o4.gp		Method AAT/GAP
Start	3881	End	5672
GI	uC-osrocyp016b02b1	Score	907
Exons	3881..4020, 4109..4178, 4755..4795, 4905..5033, 5534..5672		
GI Descrip.	'4538939/emb CAB39675.1 2.0e-50 (AL049483) Col-0 casein kinase I-like protein [Arabidopsis thaliana]'		

Seq. No.	50850	Seq. ID	OJ000209_17.0419.C22
Gene No.	107820	Strand	-
Start	1314	End	2485
Name	OJ000209_17.0419.C22.o1.np		Method AAT/NAP
Start	1314	End	2485
GI	5926740	Score	649
Exons	1314..1350, 1706..2485		
GI Descrip.	(AB025310) asparaginyl endopeptidase [Oryza sativa]		

Seq. No.	50850	Seq. ID	OJ000209_17.0419.C22
Gene No.	107820	Strand	-
Start	1314	End	2485
Name	OJ000209_17.0419.C22.o2.gs		Method GENSCAN
Start	1693	End	2433
GI	none	Score	.72
Exons	1693..2433		

Seq. No.	50850	Seq. ID	OJ000209_17.0419.C22
Gene No.	107820	Strand	-

Start	1314	End	2485
Name	OJ000209_17.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	1721	End	2484
GI	none	Score	92
Exons	1721..1870, 1744..1881, 1882..2085, 2006..2077, 2173..2241, 2174..2233, 2245..2298, 2317..2400, 2318..2389, 2381..2482, 2386..2484		

Seq. No.	50850	Seq. ID	OJ000209_17.0419.C22
Gene No.	107820	Strand	-
Start	1314	End	2485
Name	OJ000209_17.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	1721	End	2485
GI	none	Score	147
Exons	1721..1924, 1738..1881, 1882..2103, 1925..2089, 2173..2298, 2210..2308, 2317..2391, 2324..2389, 2381..2485, 2386..2484		

Seq. No.	50850	Seq. ID	OJ000209_17.0419.C22
Gene No.	107820	Strand	-
Start	1314	End	2485
Name	OJ000209_17.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	1736	End	2485
GI	none	Score	88
Exons	1736..1870, 1738..1881, 1801..1902, 1882..2091, 2006..2089, 2173..2247, 2177..2248, 2257..2298, 2317..2400, 2318..2401, 2381..2485, 2386..2484		

Seq. No.	50850	Seq. ID	OJ000209_17.0419.C22
Gene No.	107820	Strand	-
Start	1314	End	2485
Name	OJ000209_17.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	2173	End	2484
GI	none	Score	71
Exons	2173..2298, 2210..2308, 2317..2400, 2318..2401, 2383..2484, 2402..2482		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107821	Strand	+
Start	12900	End	13127
Name	OJ000209_17.0419.C24.o4.gs	Method	GENSCAN
Start	12900	End	13127
GI	none	Score	.6
Exons	12900..13127		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107822	Strand	+
Start	13963	End	14376
Name	OJ000209_17.0419.C24.o2.gp	Method	AAT/GAP
Start	13963	End	14376
GI	none	Score	751
Exons	13963..14376		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107823	Strand	+
Start	22240	End	22343
Name	OJ000209_17.0419.C24.o3.np	Method	AAT/NAP
Start	22240	End	22343

GI 5777617 Score 73
 Exons 22240..22343
 GI Descrip. (AJ245900) CAA30375.1 protein [Oryza sativa]

Seq. No. 50851 Seq. ID OJ000209_17.0419.C24
 Gene No. 107824 Strand -
 Start 2166 End 2628
 Name OJ000209_17.0419.C24.o2.gs Method GENSCAN
 Start 2166 End 2628
 GI none Score .82
 Exons 2166..2245, 2445..2628

Seq. No. 50851 Seq. ID OJ000209_17.0419.C24
 Gene No. 107825 Strand -
 Start 3413 End 19284
 Name OJ000209_17.0419.C24.o3.gs Method GENSCAN
 Start 3413 End 11640
 GI none Score .47
 Exons 3413..4338, 5224..5310, 7673..7766, 7893..8009, 8572..8688, 8832..8972, 9064..9482, 9568..9596, 9949..10016, 11380..11640

Seq. No. 50851 Seq. ID OJ000209_17.0419.C24
 Gene No. 107825 Strand -
 Start 3413 End 19284
 Name OJ000209_17.0419.C24.o1.gp Method AAT/GAP
 Start 3490 End 4381
 GI 11978_1.R1084 Score 1768
 Exons 3490..4381
 GI Descrip. '584825/sp|P37707|B2_DAUCA 2.0e-55 B2 PROTEIN
 >gi_322726_pir_S32124 B2 protein - carrot
 >gi_297889_emb_CAA51078_ (X72385) B2 protein [Daucus carota]'

Seq. No. 50851 Seq. ID OJ000209_17.0419.C24
 Gene No. 107825 Strand -
 Start 3413 End 19284
 Name OJ000209_17.0419.C24.o2.np Method AAT/NAP
 Start 7240 End 19284
 GI 7452052 Score 1789
 Exons 7240..7289, 14069..15510, 15649..15849, 15934..16103, 16550..16692, 17025..17140, 17238..17476, 17571..17772, 17874..18051, 18271..18328, 19032..19284
 GI Descrip. hypothetical protein T24C20.80 - Arabidopsis thaliana
 gi|5541726|emb|CAB51067.1| (AL096856) putative protein
 [Arabidopsis thaliana]

Seq. No. 50851 Seq. ID OJ000209_17.0419.C24
 Gene No. 107825 Strand -
 Start 3413 End 19284
 Name OJ000209_17.0419.C24.o5.gs Method GENSCAN
 Start 13839 End 19278
 GI none Score .49
 Exons 13839..13938, 14090..15828, 15934..16046, 16550..16692, 17025..17140, 17238..17476, 17571..17772, 17874..18092, 18213..18386, 19066..19278

Seq. No. 50851 Seq. ID OJ000209_17.0419.C24
 Gene No. 107826 Strand -

Start	20894	End	26028
Name	OJ000209_17.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	3414	End	3860
GI	none	Score	190
Exons	3414..3641, 3417..3467, 3425..3592, 3555..3611, 3591..3668, 3592..3813, 3593..3859, 3594..3860		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	3414	End	3860
GI	none	Score	179
Exons	3414..3641, 3425..3610, 3591..3668, 3592..3813, 3593..3859, 3594..3860		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	3423	End	3860
GI	none	Score	158
Exons	3423..3611, 3425..3592, 3593..3859, 3594..3860		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	3425	End	3859
GI	none	Score	130
Exons	3425..3592, 3426..3641, 3593..3859, 3594..3857		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	7683	End	11508
GI	none	Score	79
Exons	7683..7790, 7687..7767, 7881..8009, 7891..8010, 7891..8010, 8401..8466, 8410..8466, 8570..8683, 8572..8694, 8576..8683, 8832..8936, 9046..9321, 9047..9109, 9061..9483, 9194..9484, 9362..9481, 9388..9483, 9569..9607, 9948..10019, 9949..10017, 11356..11508		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o4.ts	Method	TBLASTX:Soybean
Start	7686	End	11571
GI	none	Score	120
Exons	7686..7778, 7881..8009, 7897..8010, 7990..8058, 8410..8466, 8411..8467, 8570..8689, 8572..8694, 8576..8689, 9948..10013, 11380..11571		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028

Name	OJ000209_17.0419.C24.o2.tc	Method	TBLASTX:Cress
Start	7692	End	11571
GI	none	Score	72
Exons	7692..7727, 7728..7790, 7881..8009, 7900..8010, 8303..8326, 8410..8466, 8417..8467, 8572..8703, 8575..8673, 8576..8689, 9064..9321, 9067..9165, 9173..9481, 9358..9486, 9391..9483, 9569..9607, 9937..10008, 9948..10019, 11380..11571		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o2.ts	Method	TBLASTX:Soybean
Start	8830	End	9617
GI	none	Score	71
Exons	8830..8916, 9058..9201, 9199..9321, 9200..9484, 9391..9483, 9569..9598, 9570..9617		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o3.tc	Method	TBLASTX:Cress
Start	14491	End	14889
GI	none	Score	36
Exons	14491..14529, 14617..14745, 14632..14667, 14792..14884, 14803..14889		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o3.tm	Method	TBLASTX:Maize
Start	14677	End	15081
GI	none	Score	233
Exons	14677..14925, 14684..14926, 14974..15081, 14974..15081		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o4.tm	Method	TBLASTX:Maize
Start	15250	End	15597
GI	none	Score	96
Exons	15250..15345, 15251..15346, 15427..15576, 15428..15580, 15434..15580, 15439..15597		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o3.ts	Method	TBLASTX:Soybean
Start	17590	End	18009
GI	none	Score	83
Exons	17590..17772, 17886..18008, 17890..18009		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o4.np	Method	AAT/NAP
Start	20894	End	24116
GI	5031285	Score	84

Exons 20894..20922, 22515..22688, 24063..24116
GI Descrip. (AF139501) beta-amylase [Prunus armeniaca]

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o6.gs	Method	GENSCAN
Start	22443	End	23606
GI	none	Score	.77
Exons	22443..22762, 22848..23128, 23258..23333, 23433..23606		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o6.np	Method	AAT/NAP
Start	22790	End	26028
GI	5852093	Score	54
Exons	22790..22810, 24537..24653, 26000..26028		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	50851	Seq. ID	OJ000209_17.0419.C24
Gene No.	107826	Strand	-
Start	20894	End	26028
Name	OJ000209_17.0419.C24.o5.np	Method	AAT/NAP
Start	23410	End	25098
GI	7487161	Score	59
Exons	23410..23565, 25079..25098		
GI Descrip.	hypothetical protein T19C21.19 - Arabidopsis thaliana gi 3395440 gb AAC28772.1 (AC004683) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50852	Seq. ID	OJ000209_17.0419.C25
Gene No.	107827	Strand	+
Start	766	End	2700
Name	OJ000209_17.0419.C25.o2.gp	Method	AAT/GAP
Start	766	End	1567
GI	43867_1.R1084	Score	842
Exons	766..1100, 1439..1567		
GI Descrip.	'2781347 4.0e-40 (AC003113) F2401.3 [Arabidopsis thaliana]'		

Seq. No.	50852	Seq. ID	OJ000209_17.0419.C25
Gene No.	107827	Strand	+
Start	766	End	2700
Name	OJ000209_17.0419.C25.o1.gs	Method	GENSCAN
Start	787	End	2268
GI	none	Score	.92
Exons	787..1100, 1439..1585, 2127..2268		

Seq. No.	50852	Seq. ID	OJ000209_17.0419.C25
Gene No.	107827	Strand	+
Start	766	End	2700
Name	OJ000209_17.0419.C25.o1.np	Method	AAT/NAP
Start	787	End	2700
GI	3157932	Score	753
Exons	787..1100, 1439..1585, 2112..2290, 2569..2700		
GI Descrip.	(AC002131) Similar to hypothetical protein HYP1 gb Z97338 from A. thaliana. [Arabidopsis thaliana]		

Seq. No.	50852	Seq. ID	OJ000209_17.0419.C25
Gene No.	107828	Strand	-
Start	71	End	137
Name	OJ000209_17.0419.C25.o1.gp	Method	AAT/GAP
Start	71	End	137
GI	LIB3431-004-P1-K1-G12	Score	75
Exons	71..137		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	50852	Seq. ID	OJ000209_17.0419.C25
Gene No.	107829	Strand	
Start	738	End	2690
Name	OJ000209_17.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	738	End	2618
GI	none	Score	91
Exons	738..1100, 762..935, 772..1101, 1440..1586, 1442..1585, 1445..1588, 1446..1595, 2125..2265, 2125..2259, 2138..2260, 2559..2618, 2571..2618		

Seq. No.	50852	Seq. ID	OJ000209_17.0419.C25
Gene No.	107829	Strand	
Start	738	End	2690
Name	OJ000209_17.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	786	End	1529
GI	none	Score	367
Exons	786..1100, 787..1101, 823..1104, 848..1105, 1440..1529		

Seq. No.	50852	Seq. ID	OJ000209_17.0419.C25
Gene No.	107829	Strand	
Start	738	End	2690
Name	OJ000209_17.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	786	End	1095
GI	none	Score	349
Exons	786..1088, 787..1095		

Seq. No.	50852	Seq. ID	OJ000209_17.0419.C25
Gene No.	107829	Strand	
Start	738	End	2690
Name	OJ000209_17.0419.C25.o2.tc	Method	TBLASTX:Cress
Start	1536	End	2265
GI	none	Score	67
Exons	1536..1586, 2122..2259, 2124..2264, 2125..2265		

Seq. No.	50852	Seq. ID	OJ000209_17.0419.C25
Gene No.	107829	Strand	
Start	738	End	2690
Name	OJ000209_17.0419.C25.o2.ts	Method	TBLASTX:Soybean
Start	2124	End	2690
GI	none	Score	187
Exons	2124..2264, 2125..2265, 2165..2281, 2559..2690, 2564..2671, 2565..2678		

Seq. No.	50853	Seq. ID	OJ000209_17.0419.C26
Gene No.	107830	Strand	+
Start	1	End	4632

Name OJ000209_17.0419.C26.o1.np Method AAT/NAP
 Start 1 End 4348
 GI 4982479 Score 1677
 Exons 1..42, 458..577, 690..774, 1239..1575, 1726..1971, 2852..3176, 3780..4013, 4094..4348
 GI Descrip. (AF069441) predicted protein of unknown function [Arabidopsis thaliana]

Seq. No. 50853 Seq. ID OJ000209_17.0419.C26
 Gene No. 107830 Strand +
 Start 1 End 4632
 Name OJ000209_17.0419.C26.o1.gs Method GENSCAN
 Start 458 End 4348
 GI none Score .87
 Exons 458..577, 690..770, 1235..1575, 1726..1971, 2852..3176, 3780..4013, 4094..4348

Seq. No. 50853 Seq. ID OJ000209_17.0419.C26
 Gene No. 107830 Strand +
 Start 1 End 4632
 Name OJ000209_17.0419.C26.o2.gp Method AAT/GAP
 Start 1232 End 1916
 GI uC-osrocyp015d03b1 Score 1046
 Exons 1232..1575, 1726..1916
 GI Descrip. '3924615 6.0e-71 (AF069442) hypothetical protein [Arabidopsis thaliana]'

Seq. No. 50853 Seq. ID OJ000209_17.0419.C26
 Gene No. 107830 Strand +
 Start 1 End 4632
 Name OJ000209_17.0419.C26.o3.gp Method AAT/GAP
 Start 3866 End 4632
 GI 50839_1.R1084 Score 1275
 Exons 3866..4013, 4094..4632
 GI Descrip. '4982479/gb|AAD36947.1|AF069441_7 2.0e-21 (AF069441) predicted protein of unknown function [Arabidopsis thaliana]'

Seq. No. 50853 Seq. ID OJ000209_17.0419.C26
 Gene No. 107831 Strand -
 Start 6527 End 8492
 Name OJ000209_17.0419.C26.o1.tm Method TBLASTX:Maize
 Start 497 End 4345
 GI none Score 118
 Exons 497..577, 538..576, 669..755, 687..770, 689..772, 1232..1573, 1234..1566, 1334..1573, 1715..1972, 1728..1970, 1732..1971, 2851..3180, 2852..3181, 2853..3179, 3777..4013, 3777..4007, 4081..4341, 4088..4345

Seq. No. 50853 Seq. ID OJ000209_17.0419.C26
 Gene No. 107831 Strand -
 Start 6527 End 8492
 Name OJ000209_17.0419.C26.o2.tc Method TBLASTX:Cress
 Start 693 End 1606
 GI none Score 71
 Exons 693..791, 1235..1606, 1276..1560

Seq. No. 50853 Seq. ID OJ000209_17.0419.C26

Gene No.	107831	Strand	-
Start	6527	End	8492
Name	OJ000209_17.0419.C26.o2.ts	Method	TBLASTX:Soybean
Start	699	End	1768
GI	none	Score	71
Exons	699..776, 1237..1566, 1244..1570, 1733..1768		
Seq. No.	50853	Seq. ID	OJ000209_17.0419.C26
Gene No.	107831	Strand	-
Start	6527	End	8492
Name	OJ000209_17.0419.C26.o2.tw	Method	TBLASTX:Wheat
Start	1261	End	1531
GI	none	Score	205
Exons	1261..1422, 1268..1531		
Seq. No.	50853	Seq. ID	OJ000209_17.0419.C26
Gene No.	107831	Strand	-
Start	6527	End	8492
Name	OJ000209_17.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	1762	End	2914
GI	none	Score	282
Exons	1762..1968, 1763..1972, 1763..1978, 2850..2912, 2852..2914		
Seq. No.	50853	Seq. ID	OJ000209_17.0419.C26
Gene No.	107831	Strand	-
Start	6527	End	8492
Name	OJ000209_17.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	1769	End	4329
GI	none	Score	248
Exons	1769..1972, 1771..1971, 2816..2968, 2851..3168, 2853..3179, 2877..3176, 3777..3857, 3779..4015, 3788..3904, 3957..4013, 4088..4276, 4090..4185, 4163..4219, 4238..4309, 4255..4329		
Seq. No.	50853	Seq. ID	OJ000209_17.0419.C26
Gene No.	107831	Strand	-
Start	6527	End	8492
Name	OJ000209_17.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	2861	End	3857
GI	none	Score	422
Exons	2861..2971, 2862..3179, 2865..3176, 3777..3857		
Seq. No.	50853	Seq. ID	OJ000209_17.0419.C26
Gene No.	107831	Strand	-
Start	6527	End	8492
Name	OJ000209_17.0419.C26.o3.tc	Method	TBLASTX:Cress
Start	3858	End	4341
GI	none	Score	76
Exons	3858..4016, 3957..4013, 4088..4192, 4091..4192, 4238..4327, 4252..4341		
Seq. No.	50853	Seq. ID	OJ000209_17.0419.C26
Gene No.	107831	Strand	-
Start	6527	End	8492
Name	OJ000209_17.0419.C26.o4.gp	Method	AAT/GAP
Start	6527	End	8139
GI	66306_1.R1084	Score	1529
Exons	6527..7002, 7414..7468, 7561..7638, 7720..7811, 7894..7917,		

8009..8139
 GI Descrip. '2739383 2.0e-25 (AC002505) unknown protein [Arabidopsis thaliana]'

Seq. No.	50853	Seq. ID	OJ000209_17.0419.C26
Gene No.	107831	Strand	-
Start	6527	End	8492
Name	OJ000209_17.0419.C26.o2.tm	Method	TBLASTX:Maize
Start	6865	End	8108
GI	none	Score	61
Exons	6865..6948, 6874..6915, 6878..6949, 6882..6950, 6944..7000, 6957..7025, 7410..7469, 7411..7464, 7415..7468, 7558..7638, 7559..7639, 7719..7796, 7719..7811, 7721..7819, 7870..7920, 7893..7922, 7893..7919, 8006..8056, 8007..8108, 8008..8106		

Seq. No.	50853	Seq. ID	OJ000209_17.0419.C26
Gene No.	107831	Strand	-
Start	6527	End	8492
Name	OJ000209_17.0419.C26.o3.gs	Method	GENSCAN
Start	6878	End	8127
GI	none	Score	.63
Exons	6878..7002, 7100..7190, 7561..7638, 7720..7832, 7894..7917, 8009..8127		

Seq. No.	50853	Seq. ID	OJ000209_17.0419.C26
Gene No.	107831	Strand	-
Start	6527	End	8492
Name	OJ000209_17.0419.C26.o2.np	Method	AAT/NAP
Start	6923	End	8492
GI	7487887	Score	276
Exons	6923..7002, 7414..7468, 7561..7638, 7720..7817, 8009..8125, 8444..8492		

GI Descrip. hypothetical protein T9J22.26 - Arabidopsis thaliana
 gi|2739383|gb|AAC14506.1| (AC002505) unknown protein
 [Arabidopsis thaliana]

Seq. No.	50853	Seq. ID	OJ000209_17.0419.C26
Gene No.	107831	Strand	-
Start	6527	End	8492
Name	OJ000209_17.0419.C26.o4.tc	Method	TBLASTX:Cress
Start	6944	End	8129
GI	none	Score	61
Exons	6944..7000, 6957..7001, 7410..7469, 7415..7468, 7558..7641, 7559..7639, 7732..7797, 7733..7813, 8025..8081, 8032..8082, 8067..8129		

Seq. No.	50854	Seq. ID	OJ000209_17.0419.C27
Gene No.	107832	Strand	+
Start	1	End	4557
Name	OJ000209_17.0419.C27.o2.np	Method	AAT/NAP
Start	1	End	4483
GI	6686407	Score	265
Exons	1..37, 2996..3063, 3157..3231, 4206..4258, 4396..4483		
GI Descrip.	(AC007234) F1E22.8 [Arabidopsis thaliana]		

Seq. No.	50854	Seq. ID	OJ000209_17.0419.C27
Gene No.	107832	Strand	+

Start	1	End	4557
Name	OJ000209_17.0419.C27.o2.gp	Method	AAT/GAP
Start	2787	End	4557
GI	19693_1.R1084	Score	826
Exons	2787..2917, 3023..3063, 3157..3231, 4206..4258, 4396..4557		
GI Descrip.	'4309884 gb AAD15542 3.0e-30 (AC006389) similar to Schizosaccharomyces pombe splicing factor; similar to PID:3395591 [Homo sapiens] >gi_5919157_gb_AAD56232.1_AF182294_1 (AF182294) U6 snRNA-associated Sm-like protein LSM8 [Homo sapiens]'		

Seq. No.	50854	Seq. ID	OJ000209_17.0419.C27
Gene No.	107833	Strand	-
Start	1	End	2592
Name	OJ000209_17.0419.C27.o1.gp	Method	AAT/GAP
Start	1	End	2592
GI	30898_1.R1084	Score	826
Exons	1..62, 156..230, 324..362, 550..609, 746..838, 1622..1678, 2506..2592		
GI Descrip.	'2739383 2.0e-47 (AC002505) unknown protein [Arabidopsis thaliana]'		

Seq. No.	50854	Seq. ID	OJ000209_17.0419.C27
Gene No.	107833	Strand	-
Start	1	End	2592
Name	OJ000209_17.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	871
GI	7487887	Score	302
Exons	1..62, 156..230, 324..362, 550..609, 746..871		
GI Descrip.	hypothetical protein T9J22.26 - Arabidopsis thaliana gi 2739383 gb AAC14506.1 (AC002505) unknown protein [Arabidopsis thaliana]		

Seq. No.	50854	Seq. ID	OJ000209_17.0419.C27
Gene No.	107834	Strand	-
Start	4839	End	5460
Name	OJ000209_17.0419.C27.o2.tm	Method	TBLASTX:Maize
Start	2	End	842
GI	none	Score	73
Exons	2..67, 3..80, 3..74, 154..231, 156..239, 156..233, 321..362, 322..363, 553..609, 559..609, 746..841, 747..839, 759..842		

Seq. No.	50854	Seq. ID	OJ000209_17.0419.C27
Gene No.	107834	Strand	-
Start	4839	End	5460
Name	OJ000209_17.0419.C27.o3.np	Method	AAT/NAP
Start	4839	End	5349
GI	2129798	Score	182
Exons	4839..5349		
GI Descrip.	pathogenesis-related protein 1a homolog precursor - rape gi 722274 gb AAB01666.1 (U21849) PR-1a [Brassica napus] gi 1575758 gb AAB09587.1 (U70666) pathogenesis-related protein PR1 [Brassica napus]		

Seq. No.	50854	Seq. ID	OJ000209_17.0419.C27
Gene No.	107834	Strand	-
Start	4839	End	5460

Name	OJ000209_17.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	4872	End	5311
GI	none	Score	214
Exons	4872..5120, 4876..5076, 5121..5300, 5125..5298, 5159..5311, 5160..5300		

Seq. No.	50854	Seq. ID	OJ000209_17.0419.C27
Gene No.	107834	Strand	-
Start	4839	End	5460
Name	OJ000209_17.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	4875	End	5258
GI	none	Score	112
Exons	4875..4976, 4977..5060, 5115..5258		

Seq. No.	50854	Seq. ID	OJ000209_17.0419.C27
Gene No.	107834	Strand	-
Start	4839	End	5460
Name	OJ000209_17.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	4875	End	5262
GI	none	Score	63
Exons	4875..4904, 4908..4973, 4989..5081, 5067..5258, 5137..5262		

Seq. No.	50854	Seq. ID	OJ000209_17.0419.C27
Gene No.	107834	Strand	-
Start	4839	End	5460
Name	OJ000209_17.0419.C27.o3.gp	Method	AAT/GAP
Start	5028	End	5460
GI	29509_1.R1084	Score	846
Exons	5028..5460		
GI Descrip.	'3702665/emb CAA07474 3.0e-10 (AJ007349) pathogenesis-related protein 1.2 [Triticum aestivum]'		

Seq. No.	50855	Seq. ID	OJ000209_17.0419.C28
Gene No.	107835	Strand	+
Start	340	End	1513
Name	OJ000209_17.0419.C28.o1.gs	Method	GENSCAN
Start	340	End	1513
GI	none	Score	.73
Exons	340..430, 1425..1513		

Seq. No.	50856	Seq. ID	OJ000209_17.0419.C31
Gene No.	107836	Strand	-
Start	1	End	224
Name	OJ000209_17.0419.C31.o1.gp	Method	AAT/GAP
Start	1	End	224
GI	2799258	Score	420
Exons	1..224		

Seq. No.	50856	Seq. ID	OJ000209_17.0419.C31
Gene No.	107837	Strand	-
Start	232	End	781
Name	OJ000209_17.0419.C31.o2.gp	Method	AAT/GAP
Start	232	End	781
GI	15824_1.R1084	Score	1060
Exons	232..781		
GI Descrip.	'4432841/gb AAD20690 7.0e-17 (AC006283) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	50856	Seq. ID	OJ000209_17.0419.C31
Gene No.	107837	Strand	-
Start	232	End	781
Name	OJ000209_17.0419.C31.o1.gs	Method	GENSCAN
Start	237	End	721
GI	none	Score	.97
Exons	237..721		

Seq. No.	50857	Seq. ID	OJ000209_17.0419.C32
Gene No.	107838	Strand	-
Start	227	End	1470
Name	OJ000209_17.0419.C32.o1.gs	Method	GENSCAN
Start	227	End	1470
GI	none	Score	.84
Exons	227..253, 418..529, 647..729, 851..973, 1074..1239, 1315..1470		

Seq. No.	50857	Seq. ID	OJ000209_17.0419.C32
Gene No.	107838	Strand	-
Start	227	End	1470
Name	OJ000209_17.0419.C32.o1.np	Method	AAT/NAP
Start	412	End	1420
GI	6634768	Score	632
Exons	412..559, 647..729, 851..982, 1074..1239, 1315..1420		
GI Descrip.	(AC009917) Contains similarity to gb D21822 ORF from Lilium longiflorum. ESTs gb T03978, gb R89954, gb AI995107, gb T20998, gb R65384 come from this gene. [Arabidopsis thaliana]		

Seq. No.	50857	Seq. ID	OJ000209_17.0419.C32
Gene No.	107838	Strand	-
Start	227	End	1470
Name	OJ000209_17.0419.C32.o2.ts	Method	TBLASTX:Soybean
Start	415	End	976
GI	none	Score	48
Exons	415..462, 417..455, 459..542, 647..736, 852..974, 866..976		

Seq. No.	50857	Seq. ID	OJ000209_17.0419.C32
Gene No.	107838	Strand	-
Start	227	End	1470
Name	OJ000209_17.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	421	End	1422
GI	none	Score	59
Exons	421..564, 422..463, 426..542, 661..735, 662..736, 849..974, 849..947, 875..979, 1089..1238, 1099..1251, 1312..1422, 1314..1421		

Seq. No.	50857	Seq. ID	OJ000209_17.0419.C32
Gene No.	107838	Strand	-
Start	227	End	1470
Name	OJ000209_17.0419.C32.o1.gp	Method	AAT/GAP
Start	456	End	1213
GI	uC-osflcyp089c01b1	Score	825
Exons	456..559, 647..729, 851..973, 1074..1213		
GI Descrip.	'4432841/gb AAD20690 5.0e-37 (AC006283) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	50857	Seq. ID	OJ000209_17.0419.C32
Gene No.	107838	Strand	-
Start	227	End	1470
Name	OJ000209_17.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	508	End	1407
GI	none	Score	54
Exons	508..579, 541..564, 645..734, 646..735, 647..736, 849..974, 866..973, 1017..1232, 1077..1238, 1078..1257, 1087..1248, 1139..1273, 1311..1403, 1312..1407, 1314..1406		

Seq. No.	50857	Seq. ID	OJ000209_17.0419.C32
Gene No.	107838	Strand	-
Start	227	End	1470
Name	OJ000209_17.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	1122	End	1421
GI	none	Score	75
Exons	1122..1142, 1144..1239, 1146..1238, 1314..1421		

Seq. No.	50858	Seq. ID	OJ000229_10.0419.C1
Gene No.	107839	Strand	+
Start	1	End	407
Name	OJ000229_10.0419.C1.o1.gp	Method	AAT/GAP
Start	1	End	407
GI	none	Score	299
Exons	1..170, 387..407		

Seq. No.	50859	Seq. ID	OJ000229_10.0419.C3
Gene No.	107840	Strand	-
Start	366	End	1619
Name	OJ000229_10.0419.C3.o3.tw	Method	TBLASTX:Wheat
Start	182	End	543
GI	none	Score	104
Exons	182..217, 314..526, 340..543		

Seq. No.	50859	Seq. ID	OJ000229_10.0419.C3
Gene No.	107840	Strand	-
Start	366	End	1619
Name	OJ000229_10.0419.C3.o1.np	Method	AAT/NAP
Start	366	End	1619
GI	7444417	Score	999
Exons	366..1619		
GI Descrip.	hypothetical protein M4I22.20 - Arabidopsis thaliana gi 3269282 emb CAA19715.1 (AL030978) putative protein [Arabidopsis thaliana] gi 7269574 emb CAB79576.1 (AL161566) putative protein [Arabidopsis thaliana]		

Seq. No.	50859	Seq. ID	OJ000229_10.0419.C3
Gene No.	107840	Strand	-
Start	366	End	1619
Name	OJ000229_10.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	406	End	711
GI	none	Score	88
Exons	406..711, 407..643, 415..702		

Seq. No.	50859	Seq. ID	OJ000229_10.0419.C3
Gene No.	107840	Strand	-
Start	366	End	1619

Name OJ000229_10.0419.C3.o1.ts
 Start 409
 GI none
 Exons 409..822, 410..811, 935..1003

Method TBLASTX:Soybean
 End 1003
 Score 179

Seq. No. 50859
 Gene No. 107840
 Start 366
 Name OJ000229_10.0419.C3.o1.tm
 Start 712
 GI none
 Exons 712..939, 713..940, 929..1168, 933..1169

Seq. ID OJ000229_10.0419.C3
 Strand -
 End 1619
 Method TBLASTX:Maize
 End 1169
 Score 155

Seq. No. 50859
 Gene No. 107840
 Start 366
 Name OJ000229_10.0419.C3.o1.tw
 Start 769
 GI none
 Exons 769..939, 770..928, 929..1027, 948..1025, 1037..1198, 1038..1190

Seq. ID OJ000229_10.0419.C3
 Strand -
 End 1619
 Method TBLASTX:Wheat
 End 1198
 Score 91

Seq. No. 50859
 Gene No. 107840
 Start 366
 Name OJ000229_10.0419.C3.o2.ts
 Start 850
 GI none
 Exons 850..933, 1004..1222, 1005..1220

Seq. ID OJ000229_10.0419.C3
 Strand -
 End 1619
 Method TBLASTX:Soybean
 End 1222
 Score 83

Seq. No. 50859
 Gene No. 107840
 Start 366
 Name OJ000229_10.0419.C3.o1.tc
 Start 1028
 GI none
 Exons 1028..1321

Seq. ID OJ000229_10.0419.C3
 Strand -
 End 1619
 Method TBLASTX:Cress
 End 1321
 Score 201

Seq. No. 50859
 Gene No. 107840
 Start 366
 Name OJ000229_10.0419.C3.o4.tm
 Start 1175
 GI none
 Exons 1175..1354, 1179..1277

Seq. ID OJ000229_10.0419.C3
 Strand -
 End 1619
 Method TBLASTX:Maize
 End 1354
 Score 63

Seq. No. 50859
 Gene No. 107840
 Start 366
 Name OJ000229_10.0419.C3.o2.tw
 Start 1199
 GI none
 Exons 1199..1381, 1391..1558, 1399..1605

Seq. ID OJ000229_10.0419.C3
 Strand -
 End 1619
 Method TBLASTX:Wheat
 End 1605
 Score 109

Seq. No. 50859
 Gene No. 107840
 Start 366
 Name OJ000229_10.0419.C3.o3.ts
 Start 1175

Seq. ID OJ000229_10.0419.C3
 Strand -
 End 1619
 Method TBLASTX:Soybean

Start	1277	End	1602
GI	none	Score	91
Exons	1277..1399, 1408..1455, 1489..1602		

Seq. No.	50859	Seq. ID	OJ000229_10.0419.C3
Gene No.	107840	Strand	-
Start	366	End	1619
Name	OJ000229_10.0419.C3.o3.tm	Method	TBLASTX:Maize
Start	1369	End	1602
GI	none	Score	153
Exons	1369..1602, 1370..1585		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107841	Strand	+
Start	3453	End	11712
Name	OJ000229_10.0419.C4.o2.gs	Method	GENSCAN
Start	3453	End	11712
GI	none	Score	.46
Exons	3453..3713, 4617..4666, 4877..4954, 6906..7005, 7784..7939, 9797..10105, 11185..11712		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107841	Strand	+
Start	3453	End	11712
Name	OJ000229_10.0419.C4.o3.np	Method	AAT/NAP
Start	3486	End	5160
GI	5902368	Score	115
Exons	3486..3713, 4749..5160		
GI Descrip.	(AC009322) Unknown protein [Arabidopsis thaliana]		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107841	Strand	+
Start	3453	End	11712
Name	OJ000229_10.0419.C4.o5.np	Method	AAT/NAP
Start	9145	End	11601
GI	3786008	Score	140
Exons	9145..9207, 9917..10105, 11185..11336, 11394..11601		
GI Descrip.	(AC005499) unknown protein [Arabidopsis thaliana]		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107842	Strand	-
Start	1	End	3229
Name	OJ000229_10.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	2544
GI	3779021	Score	827
Exons	1..1446, 1539..1798, 1861..2544		
GI Descrip.	(AC005171) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107842	Strand	-
Start	1	End	3229
Name	OJ000229_10.0419.C4.o2.np	Method	AAT/NAP
Start	1	End	2325
GI	3779021	Score	827
Exons	1..1446, 1539..1798, 1861..2325		
GI Descrip.	(AC005171) putative retroelement pol polyprotein [Arabidopsis thaliana]		

thaliana]

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107842	Strand	-
Start	1	End	3229
Name	OJ000229_10.0419.C4.o1.gs	Method	GENSCAN
Start	26	End	3229
GI	none	Score	.54
Exons	26..544, 907..1041, 1109..1588, 1607..1852, 1912..2292, 2483..2646, 3199..3229		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107843	Strand	-
Start	5882	End	6336
Name	OJ000229_10.0419.C4.o1.gp	Method	AAT/GAP
Start	5882	End	6336
GI	none	Score	884
Exons	5882..6336		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	152	End	589
GI	none	Score	68
Exons	152..589, 156..293		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	152	End	502
GI	none	Score	153
Exons	152..502, 153..461		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	167	End	628
GI	none	Score	260
Exons	167..628		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	177	End	634
GI	none	Score	173
Exons	177..575, 179..556, 399..557, 533..634		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o5.tm	Method	TBLASTX:Maize
Start	636	End	919
GI	none	Score	38

Exons 636..677, 752..919, 759..914

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o2.tc	Method	TBLASTX:Cress
Start	731	End	1027
GI	none	Score	203
Exons	731..814, 818..1027		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	824	End	1273
GI	none	Score	78
Exons	824..937, 834..917, 986..1081, 1088..1228, 1088..1273		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	920	End	1249
GI	none	Score	54
Exons	920..1030, 966..1010, 1067..1246, 1067..1249		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o4.tm	Method	TBLASTX:Maize
Start	1927	End	2430
GI	none	Score	95
Exons	1927..2238, 2015..2227, 2347..2430		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	3530	End	11273
GI	none	Score	275
Exons	3530..3715, 3531..3716, 4723..4761, 4755..4784, 9906..9950, 9907..9966, 9914..10108, 9916..10107, 10039..10161, 10041..10115, 11167..11244, 11172..11273		

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o4.np	Method	AAT/NAP
Start	7669	End	9141
GI	4503719	Score	222
Exons	7669..7777, 7865..7951, 8182..8328, 9040..9141		
GI Descrip.	fragile histidine triad gene gi 1706794 sp P49789 FHIT_HUMAN BIS(5'-ADENOSYL)-TRIPHOSPHATASE (DIADENOSINE 5',5'''-P1,P3-TRIPHOSPHATE HYDROLASE) (DINUCLEOSIDETRIPHOSPHATASE) (AP3A HYDROLASE) (AP3AASE) (FRAGILE HISTIDINE TRIAD PROTEIN) gi 3114520 pdb 4FIT Fhit-Apo gi 3114524 pdb 6FIT Fhit-Transition State Analog		

gi|3318895|pdb|1FHI| Substrate Analog (Ib2) Complex W

Seq. No.	50860	Seq. ID	OJ000229_10.0419.C4
Gene No.	107844	Strand	-
Start	7669	End	11273
Name	OJ000229_10.0419.C4.o2.gp	Method	AAT/GAP
Start	8610	End	9207
GI	uC-osflM202097d10b1	Score	918
Exons	8610..8922, 9042..9207		
GI Descrip.	'4062935/dbj AB003495.1 AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	50861	Seq. ID	OJ000229_10.0419.C5
Gene No.	107845	Strand	-
Start	1336	End	3625
Name	OJ000229_10.0419.C5.o1.gp	Method	AAT/GAP
Start	1199	End	2063
GI	75776_1.R1084	Score	877
Exons	1199..1452, 1544..1642, 1928..2063		
GI Descrip.	'4503719/ref NP_002003.1 pFHIT 1.0e-23 fragile histidine triad gene >gi_1706794_sp_P49789_FHIT_HUMAN BIS(5''-ADENOSYL)-TRIPHOSPHATASE (DIADENOSINE 5'',5''''''-P1,P3-TRIPHOSPHATE HYDROLASE) (DINUCLEOSIDETRIPHOSPHATASE) (AP3A HYDROLASE) (AP3AASE) (FRAGILE HISTIDINE TRIAD PROTEIN) >gi_3114520_pdb_4FIT_Fhit-Apo >gi_3114524_pdb_6FIT_Fhit-Transition State Analog >gi_3318895_pdb_1FHI_Subst'		

Seq. No.	50861	Seq. ID	OJ000229_10.0419.C5
Gene No.	107845	Strand	-
Start	1336	End	3625
Name	OJ000229_10.0419.C5.o1.gs	Method	GENSCAN
Start	1336	End	3625
GI	none	Score	.76
Exons	1336..1452, 1544..1651, 1928..2053, 2488..2653, 3292..3625		

Seq. No.	50861	Seq. ID	OJ000229_10.0419.C5
Gene No.	107845	Strand	-
Start	1336	End	3625
Name	OJ000229_10.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	1336	End	3402
GI	none	Score	117
Exons	1336..1452, 1336..1452, 1344..1454, 1347..1454, 1537..1644, 1541..1648, 1545..1643, 1926..2072, 1928..2074, 1932..2072, 3272..3379, 3312..3383, 3314..3397, 3315..3401, 3316..3402		

Seq. No.	50861	Seq. ID	OJ000229_10.0419.C5
Gene No.	107845	Strand	-
Start	1336	End	3625
Name	OJ000229_10.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	1338	End	2074
GI	none	Score	49
Exons	1338..1463, 1351..1443, 1545..1643, 1547..1648, 1919..2056, 1928..2074, 1932..2072		

Seq. No.	50861	Seq. ID	OJ000229_10.0419.C5
Gene No.	107845	Strand	-

Start	1336	End	3625
Name	OJ000229_10.0419.C5.o1.np	Method	AAT/NAP
Start	1339	End	2169
GI	4503719	Score	233
Exons	1339..1435, 1548..1642, 1928..2169		
GI Descrip.	fragile histidine triad gene gi 1706794 sp P49789 FHIT_HUMAN BIS(5'-ADENOSYL)-TRIPHOSPHATASE (DIADENOSINE 5',5'''-P1,P3-TRIPHOSPHATE HYDROLASE) (DINUCLEOSIDETRIPHOSPHATASE) (AP3A HYDROLASE) (AP3AASE) (FRAGILE HISTIDINE TRIAD PROTEIN) gi 3114520 pdb 4FIT Fhit-Apo gi 3114524 pdb 6FIT Fhit-Transition State Analog gi 3318895 pdb 1FHI Substrate Analog (Ib2) Complex W		

Seq. No.	50861	Seq. ID	OJ000229_10.0419.C5
Gene No.	107845	Strand	-
Start	1336	End	3625
Name	OJ000229_10.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	1342	End	3391
GI	none	Score	59
Exons	1342..1440, 1342..1452, 1541..1648, 1545..1643, 1919..2047, 1928..2074, 1932..2072, 1932..2078, 3266..3379, 3314..3391, 3315..3380		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107846	Strand	+
Start	3850	End	5729
Name	OJ000229_10.0419.C6.o1.np	Method	AAT/NAP
Start	3850	End	5729
GI	7523502	Score	178
Exons	3850..3943, 4235..4365, 5694..5729		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107847	Strand	+
Start	8394	End	10455
Name	OJ000229_10.0419.C6.o1.gp	Method	AAT/GAP
Start	8312	End	8823
GI	uC-osflcyp089c04b1	Score	965
Exons	8312..8823		
GI Descrip.	'3786008 9.0e-19 (AC005499) unknown protein [Arabidopsis thaliana]'		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107847	Strand	+
Start	8394	End	10455
Name	OJ000229_10.0419.C6.o2.gs	Method	GENSCAN
Start	8394	End	10455
GI	none	Score	.84
Exons	8394..9058, 9519..9598, 10310..10455		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107847	Strand	+
Start	8394	End	10455
Name	OJ000229_10.0419.C6.o2.np	Method	AAT/NAP
Start	8424	End	9026
GI	3786008	Score	282
Exons	8424..8795, 8835..9026		

GI Descrip. (AC005499) unknown protein [Arabidopsis thaliana]

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107848	Strand	+
Start	12437	End	16468
Name	OJ000229_10.0419.C6.o3.gs	Method	GENSCAN
Start	12437	End	16468
GI	none	Score	.75
Exons	12437..12546, 13665..14600, 14685..14889, 15268..15486, 15574..15665, 15751..16468		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107848	Strand	+
Start	12437	End	16468
Name	OJ000229_10.0419.C6.o3.np	Method	AAT/NAP
Start	13792	End	16453
GI	7487861	Score	994
Exons	13792..14889, 15268..15486, 15574..15665, 15751..16024, 16094..16453		

GI Descrip. hypothetical protein T9E8.110 - Arabidopsis thaliana
gi|4584542|emb|CAB40772.1| (AL049608) putative protein
[Arabidopsis thaliana] gi|7268040|emb|CAB78379.1| (AL161536)
putative protein [Arabidopsis thaliana]

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107849	Strand	+
Start	18460	End	19172
Name	OJ000229_10.0419.C6.o5.np	Method	AAT/NAP
Start	18460	End	19172
GI	6822066	Score	270
Exons	18460..19172		

GI Descrip. (AL132957) putative protein [Arabidopsis thaliana]

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107850	Strand	-
Start	17368	End	19235
Name	OJ000229_10.0419.C6.o4.gs	Method	GENSCAN
Start	17368	End	19235
GI	none	Score	.84
Exons	17368..17520, 18120..18194, 18450..19235		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107851	Strand	-
Start	20300	End	23548
Name	OJ000229_10.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	8400	End	8729
GI	none	Score	41
Exons	8400..8435, 8462..8590, 8496..8609, 8604..8666, 8606..8668, 8658..8729		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107851	Strand	-
Start	20300	End	23548
Name	OJ000229_10.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	15245	End	15499
GI	none	Score	72
Exons	15245..15322, 15262..15330, 15262..15318, 15308..15322,		

15313..15489, 15338..15499, 15342..15488, 15388..15498

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107851	Strand	-
Start	20300	End	23548
Name	OJ000229_10.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	18702	End	18965
GI	none	Score	375
Exons	18702..18965, 18761..18955		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107851	Strand	-
Start	20300	End	23548
Name	OJ000229_10.0419.C6.o2.gp	Method	AAT/GAP
Start	19663	End	19803
GI	10494_1.R1084	Score	210
Exons	19663..19803		
GI Descrip.	'5730046/ref NM_006632.1 SLC17A3 1.0e-09 Homo sapiens solute carrier family 17 (sodium phosphate), member 3 (SLC17A3) mRNA >gi_2062691_gb_U90545_HSU90545 Human sodium phosphate transporter (NPT4) mRNA, complete cds'		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107851	Strand	-
Start	20300	End	23548
Name	OJ000229_10.0419.C6.o3.gp	Method	AAT/GAP
Start	19941	End	20109
GI	2796959	Score	303
Exons	19941..20109		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107851	Strand	-
Start	20300	End	23548
Name	OJ000229_10.0419.C6.o5.gs	Method	GENSCAN
Start	20300	End	23548
GI	none	Score	.73
Exons	20300..21074, 21109..21184, 22887..22973, 23449..23548		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107851	Strand	-
Start	20300	End	23548
Name	OJ000229_10.0419.C6.o4.tm	Method	TBLASTX:Maize
Start	20342	End	20516
GI	none	Score	148
Exons	20342..20506, 20342..20506, 20344..20511, 20355..20516		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107851	Strand	-
Start	20300	End	23548
Name	OJ000229_10.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	20568	End	21022
GI	none	Score	75
Exons	20568..20630, 20569..20808, 20570..20656, 20572..20778, 20603..20824, 20604..21014, 20777..20899, 20888..21022		

Seq. No.	50862	Seq. ID	OJ000229_10.0419.C6
Gene No.	107851	Strand	-

Start 20300
 Name OJ000229_10.0419.C6.o4.gp
 Start 20589
 GI none
 Exons 20589..21074, 22887..23073

End 23548
 Method AAT/GAP
 End 23073
 Score 1243

Seq. No. 50863
 Gene No. 107852
 Start 119
 Name OJ000229_10.0419.C7.o1.gs
 Start 119
 GI none
 Exons 119..594, 1347..1467, 1582..1816, 3312..3475

Seq. ID OJ000229_10.0419.C7
 Strand -
 End 3513
 Method GENSCAN
 End 3475
 Score .6

Seq. No. 50863
 Gene No. 107852
 Start 119
 Name OJ000229_10.0419.C7.o1.np
 Start 3309
 GI 7484957
 Exons 3309..3513

Seq. ID OJ000229_10.0419.C7
 Strand -
 End 3513
 Method AAT/NAP
 End 3513
 Score 27

GI Descrip. extensin homolog F28A21.80 - Arabidopsis thaliana
 gi|4539386|emb|CAB37452.1| (AL035526) extensin-like protein
 [Arabidopsis thaliana] gi|7268661|emb|CAB78869.1| (AL161549)
 extensin-like protein [Arabidopsis thaliana]

Seq. No. 50864
 Gene No. 107853
 Start 6805
 Name OJ000229_10.0419.C8.o3.gp
 Start 6805
 GI none
 Exons 6805..7118, 7265..7353

Seq. ID OJ000229_10.0419.C8
 Strand +
 End 7353
 Method AAT/GAP
 End 7353
 Score 770

Seq. No. 50864
 Gene No. 107854
 Start 7415
 Name OJ000229_10.0419.C8.o2.gs
 Start 7415
 GI none
 Exons 7415..7750, 7858..8238, 9222..9317

Seq. ID OJ000229_10.0419.C8
 Strand +
 End 9317
 Method GENSCAN
 End 9317
 Score .65

Seq. No. 50864
 Gene No. 107854
 Start 7415
 Name OJ000229_10.0419.C8.o4.gp
 Start 7458
 GI uC-osflM202091b10b1
 Exons 7458..7750, 7858..7987

Seq. ID OJ000229_10.0419.C8
 Strand +
 End 9317
 Method AAT/GAP
 End 7987
 Score 724

GI Descrip. '4760544/dbj|AB019492.1|AB019492 5.0e-23 Homo sapiens
 IDN4-GGTR14 mRNA, partial cds'

Seq. No. 50864
 Gene No. 107855
 Start 1
 Name OJ000229_10.0419.C8.o1.np
 Start 1

Seq. ID OJ000229_10.0419.C8
 Strand -
 End 3171
 Method AAT/NAP
 End 2490

GI 6539553 Score 483
 Exons 1..163, 2180..2490
 GI Descrip. (AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]

Seq. No. 50864 Seq. ID OJ000229_10.0419.C8
 Gene No. 107855 Strand -
 Start 1 End 3171
 Name OJ000229_10.0419.C8.o2.np Method AAT/NAP
 Start 999 End 3171
 GI 6630546 Score 162
 Exons 999..1026, 2912..3171
 GI Descrip. (AC011708) putative alpha/beta hydrolase [Arabidopsis thaliana]

Seq. No. 50864 Seq. ID OJ000229_10.0419.C8
 Gene No. 107855 Strand -
 Start 1 End 3171
 Name OJ000229_10.0419.C8.o2.gp Method AAT/GAP
 Start 1369 End 1538
 GI 2796959 Score 272
 Exons 1369..1538

Seq. No. 50864 Seq. ID OJ000229_10.0419.C8
 Gene No. 107856 Strand -
 Start 4429 End 9104
 Name OJ000229_10.0419.C8.o3.np Method AAT/NAP
 Start 4429 End 9104
 GI 121628 Score 93
 Exons 4429..4845, 6697..6958, 9004..9104
 GI Descrip. GLYCINE-RICH CELL WALL STRUCTURAL PROTEIN 1.0 PRECURSOR (GRP 1.0) gi|81867|pir||S01821 glycine-rich protein 1.0 precursor - kidney bean gi|21001|emb|CAA31931| (X13595) GRP 1.0 protein (AA 1 - 252) [Phaseolus vulgaris]

Seq. No. 50864 Seq. ID OJ000229_10.0419.C8
 Gene No. 107857 Strand -
 Start 9808 End 10225
 Name OJ000229_10.0419.C8.o1.tm Method TBLASTX:Maize
 Start 1982 End 2229
 GI none Score 153
 Exons 1982..2188, 1986..2189, 2017..2229

Seq. No. 50864 Seq. ID OJ000229_10.0419.C8
 Gene No. 107857 Strand -
 Start 9808 End 10225
 Name OJ000229_10.0419.C8.o1.tw Method TBLASTX:Wheat
 Start 2200 End 2559
 GI none Score 148
 Exons 2200..2355, 2206..2331, 2315..2500, 2317..2499, 2496..2543, 2503..2559

Seq. No. 50864 Seq. ID OJ000229_10.0419.C8
 Gene No. 107857 Strand -
 Start 9808 End 10225
 Name OJ000229_10.0419.C8.o3.gs Method GENSCAN

Start 9808
 GI none
 Exons 9808..9827, 10195..10225

End 10225
 Score .46

Seq. No. 50865
 Gene No. 107858
 Start 1
 Name OJ000229_10.0419.C9.o1.gp
 Start 1
 GI 18282_1.R1084
 Exons 1..188

Seq. ID OJ000229_10.0419.C9
 Strand -
 End 188
 Method AAT/GAP
 End 188
 Score 349

GI Descrip. '3805765 1.0e-123 (AC005693) putative protein kinase [Arabidopsis thaliana]'

Seq. No. 50866
 Gene No. 107859
 Start 701
 Name OJ000229_10.0419.C10.o1.gp
 Start 701
 GI none
 Exons 701..1377

Seq. ID OJ000229_10.0419.C10
 Strand +
 End 1377
 Method AAT/GAP
 End 1377
 Score 1076

Seq. No. 50866
 Gene No. 107859
 Start 701
 Name OJ000229_10.0419.C10.o1.gs
 Start 708
 GI none
 Exons 708..801, 896..1188

Seq. ID OJ000229_10.0419.C10
 Strand +
 End 1377
 Method GENSCAN
 End 1188
 Score .95

Seq. No. 50867
 Gene No. 107860
 Start 1
 Name OJ000229_10.0419.C11.o1.np
 Start 1
 GI 6630459
 Exons 1..147, 337..536, 1400..1476

Seq. ID OJ000229_10.0419.C11
 Strand -
 End 1476
 Method AAT/NAP
 End 1476
 Score 105

GI Descrip. (AC007190) F23N19.12 [Arabidopsis thaliana]

Seq. No. 50867
 Gene No. 107860
 Start 1
 Name OJ000229_10.0419.C11.o1.tm
 Start 3
 GI none
 Exons 3..161, 83..160, 152..307, 215..286, 287..382, 287..376, 425..481, 425..544

Seq. ID OJ000229_10.0419.C11
 Strand -
 End 1476
 Method TBLASTX:Maize
 End 544
 Score 113

Seq. No. 50867
 Gene No. 107860
 Start 1
 Name OJ000229_10.0419.C11.o1.gs
 Start 14
 GI none
 Exons 14..520

Seq. ID OJ000229_10.0419.C11
 Strand -
 End 1476
 Method GENSCAN
 End 520
 Score .53

Seq. No. 50868

Seq. ID OJ000229_10.0419.C12

Gene No. 107861
 Start 993
 Name OJ000229_10.0419.C12.o1.tm
 Start 908
 GI none
 Exons 908..1159, 933..1160

Strand +
 End 1160
 Method TBLASTX:Maize
 End 1160
 Score 228

Seq. No. 50868
 Gene No. 107861
 Start 993
 Name OJ000229_10.0419.C12.o1.gs
 Start 993
 GI none
 Exons 993..1160

Seq. ID OJ000229_10.0419.C12
 Strand +
 End 1160
 Method GENSCAN
 End 1160
 Score .7

Seq. No. 50869
 Gene No. 107862
 Start 1
 Name OJ000229_10.0419.C13.o1.np
 Start 1
 GI 4204278
 Exons 1..535, 605..1031

Seq. ID OJ000229_10.0419.C13
 Strand +
 End 1031
 Method AAT/NAP
 End 1031
 Score 356

GI Descrip. (AC004146) putative Cytochrome P450 protein [Arabidopsis thaliana]

Seq. No. 50869
 Gene No. 107862
 Start 1
 Name OJ000229_10.0419.C13.o1.gs
 Start 171
 GI none
 Exons 171..507, 603..1031

Seq. ID OJ000229_10.0419.C13
 Strand +
 End 1031
 Method GENSCAN
 End 1031
 Score .66

Seq. No. 50869
 Gene No. 107863
 Start 2208
 Name OJ000229_10.0419.C13.o1.tw
 Start 274
 GI none
 Exons 274..462, 279..461, 380..508, 441..506, 442..510, 444..512, 603..683, 605..682, 4355..4549, 4356..4514, 4652..4732, 4652..4729, 4654..4731

Seq. ID OJ000229_10.0419.C13
 Strand +
 End 5080
 Method TBLASTX:Wheat
 End 4732
 Score 209

Seq. No. 50869
 Gene No. 107863
 Start 2208
 Name OJ000229_10.0419.C13.o1.tm
 Start 330
 GI none
 Exons 330..443, 331..444, 591..803, 593..763, 827..898, 831..908, 855..1025, 4361..4549, 4362..4565, 4652..4852, 4654..4809, 4880..4939, 4978..5067, 4997..5059

Seq. ID OJ000229_10.0419.C13
 Strand +
 End 5080
 Method TBLASTX:Maize
 End 5067
 Score 162

Seq. No. 50869
 Gene No. 107863
 Start 2208
 Name OJ000229_10.0419.C13.o1.ts

Seq. ID OJ000229_10.0419.C13
 Strand +
 End 5080
 Method TBLASTX:Soybean

Start	603	End	5062
GI	none	Score	367
Exons	603..1025, 674..1030, 2295..2426, 3085..3120, 3175..3339, 3484..3618, 4371..4565, 4651..4782, 4652..5062, 4891..5040		

Seq. No.	50869	Seq. ID	OJ000229_10.0419.C13
Gene No.	107863	Strand	+
Start	2208	End	5080
Name	OJ000229_10.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	609	End	5053
GI	none	Score	317
Exons	609..1004, 620..1003, 4658..5053, 4669..4776		

Seq. No.	50869	Seq. ID	OJ000229_10.0419.C13
Gene No.	107863	Strand	+
Start	2208	End	5080
Name	OJ000229_10.0419.C13.o2.tw	Method	TBLASTX:Wheat
Start	684	End	4939
GI	none	Score	121
Exons	684..824, 686..832, 837..902, 842..898, 4733..4879, 4808..4882, 4874..4939, 4888..4938		

Seq. No.	50869	Seq. ID	OJ000229_10.0419.C13
Gene No.	107863	Strand	+
Start	2208	End	5080
Name	OJ000229_10.0419.C13.o2.np	Method	AAT/NAP
Start	2208	End	5080
GI	7430708	Score	660
Exons	2208..2511, 3041..3267, 3403..3650, 4187..4550, 4652..5080		
GI Descrip.	cytochrome P450 homolog F14M4.22 - Arabidopsis thaliana gi 3522946 gb AAC34228.1 (AC004411) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	50869	Seq. ID	OJ000229_10.0419.C13
Gene No.	107863	Strand	+
Start	2208	End	5080
Name	OJ000229_10.0419.C13.o3.gs	Method	GENSCAN
Start	3100	End	5077
GI	none	Score	.83
Exons	3100..3267, 3403..3650, 4187..4550, 4652..5077		

Seq. No.	50869	Seq. ID	OJ000229_10.0419.C13
Gene No.	107863	Strand	+
Start	2208	End	5080
Name	OJ000229_10.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	3193	End	3668
GI	none	Score	85
Exons	3193..3264, 3400..3639, 3402..3668		

Seq. No.	50870	Seq. ID	OJ000229_10.0419.C14
Gene No.	107864	Strand	+
Start	17	End	352
Name	OJ000229_10.0419.C14.o1.gs	Method	GENSCAN
Start	17	End	352
GI	none	Score	.89
Exons	17..188, 245..352		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107865	Strand	+
Start	2343	End	2661
Name	OJ000229_10.0419.C16.o1.gp	Method	AAT/GAP
Start	2343	End	2661
GI	427627	Score	547
Exons	2343..2661		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107866	Strand	-
Start	2200	End	6288
Name	OJ000229_10.0419.C16.o2.gs	Method	GENSCAN
Start	2200	End	6288
GI	none	Score	.98
Exons	2200..2847, 3080..4211, 6197..6288		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107866	Strand	-
Start	2200	End	6288
Name	OJ000229_10.0419.C16.o2.np	Method	AAT/NAP
Start	2266	End	5330
GI	6714358	Score	1394
Exons	2266..2562, 2602..2847, 3080..4228, 4948..5014, 5262..5330		
GI Descrip.	(AC012562) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	1634	End	1823
GI	none	Score	258
Exons	1634..1819, 1634..1810, 1635..1823		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o4.ts	Method	TBLASTX:Soybean
Start	1638	End	1808
GI	none	Score	102
Exons	1638..1754, 1639..1695, 1698..1808, 1701..1805, 1702..1806		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	2335	End	3154
GI	none	Score	67
Exons	2335..2406, 2467..2580, 2677..2733, 2678..2920, 2689..2850, 3080..3154		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o2.tc	Method	TBLASTX:Cress
Start	2470	End	2851
GI	none	Score	107
Exons	2470..2574, 2689..2850, 2693..2851		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o3.tm	Method	TBLASTX:Maize
Start	2701	End	3592
GI	none	Score	78
Exons	2701..2844, 3078..3230, 3080..3256, 3320..3592, 3344..3592		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o3.tc	Method	TBLASTX:Cress
Start	3080	End	3230
GI	none	Score	119
Exons	3080..3229, 3081..3230		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o3.ts	Method	TBLASTX:Soybean
Start	3158	End	3509
GI	none	Score	68
Exons	3158..3256, 3159..3269, 3305..3409, 3306..3389, 3389..3508, 3393..3509		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	3623	End	4234
GI	none	Score	72
Exons	3623..3769, 3824..4234, 3906..4139		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	3819	End	4156
GI	none	Score	149
Exons	3819..4142, 3821..4156		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	3839	End	4231
GI	none	Score	91
Exons	3839..4231, 4059..4184		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o3.gs	Method	GENSCAN
Start	6976	End	10342
GI	none	Score	.63
Exons	6976..7031, 8701..8850, 8882..9004, 9342..9535, 10057..10342		

Seq. No.	50871	Seq. ID	OJ000229_10.0419.C16
Gene No.	107867	Strand	-
Start	6976	End	10342
Name	OJ000229_10.0419.C16.o3.np	Method	AAT/NAP
Start	8675	End	9618
GI	5922621	Score	141
Exons	8675..8810, 9403..9618		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016854 dbj BAA85197.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	50872	Seq. ID	OJ000229_10.0419.C17
Gene No.	107868	Strand	-
Start	2974	End	3909
Name	OJ000229_10.0419.C17.o3.tm	Method	TBLASTX:Maize
Start	2697	End	3121
GI	none	Score	37
Exons	2697..2717, 2826..3113, 2971..3120, 2972..3121		

Seq. No.	50872	Seq. ID	OJ000229_10.0419.C17
Gene No.	107868	Strand	-
Start	2974	End	3909
Name	OJ000229_10.0419.C17.o1.np	Method	AAT/NAP
Start	2974	End	3909
GI	6714361	Score	681
Exons	2974..3909		
GI Descrip.	(AC012562) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50872	Seq. ID	OJ000229_10.0419.C17
Gene No.	107868	Strand	-
Start	2974	End	3909
Name	OJ000229_10.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	3185	End	3577
GI	none	Score	155
Exons	3185..3331, 3187..3339, 3264..3335, 3340..3429, 3341..3427, 3342..3434, 3433..3534, 3433..3576, 3434..3577		

Seq. No.	50872	Seq. ID	OJ000229_10.0419.C17
Gene No.	107868	Strand	-
Start	2974	End	3909
Name	OJ000229_10.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	3397	End	3747
GI	none	Score	355
Exons	3397..3747		

Seq. No.	50872	Seq. ID	OJ000229_10.0419.C17
Gene No.	107868	Strand	-
Start	2974	End	3909
Name	OJ000229_10.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	3436	End	3673
GI	none	Score	95
Exons	3436..3672, 3439..3531, 3443..3673		

Seq. No.	50872	Seq. ID	OJ000229_10.0419.C17
Gene No.	107868	Strand	-
Start	2974	End	3909

Name	OJ000229_10.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	3511	End	3813
GI	none	Score	63
Exons	3511..3576, 3562..3744, 3745..3813		
Seq. No.	50872	Seq. ID	OJ000229_10.0419.C17
Gene No.	107868	Strand	-
Start	2974	End	3909
Name	OJ000229_10.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	3578	End	3753
GI	none	Score	62
Exons	3578..3679, 3580..3702, 3580..3693, 3688..3753, 3697..3753		
Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107869	Strand	+
Start	3975	End	9792
Name	OJ000229_10.0419.C18.o3.np	Method	AAT/NAP
Start	3975	End	8632
GI	7445894	Score	240
Exons	3975..4007, 5720..6241, 8605..8632		
GI Descrip.	potassium channel protein - maize gi 2104908 emb CAA68912.1 (Y07632) potassium channel [Zea mays]		
Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107869	Strand	+
Start	3975	End	9792
Name	OJ000229_10.0419.C18.o4.gp	Method	AAT/GAP
Start	7153	End	7447
GI	20886_2.R1084	Score	355
Exons	7153..7286, 7307..7447		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 8.0e-24 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107869	Strand	+
Start	3975	End	9792
Name	OJ000229_10.0419.C18.o5.gp	Method	AAT/GAP
Start	8351	End	9792
GI	none	Score	922
Exons	8351..8584, 9544..9792		
Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107870	Strand	+
Start	10085	End	12013
Name	OJ000229_10.0419.C18.o5.np	Method	AAT/NAP
Start	10085	End	11871
GI	6630546	Score	863
Exons	10085..10497, 10587..10701, 10747..10929, 11146..11244, 11321..11441, 11645..11871		
GI Descrip.	(AC011708) putative alpha/beta hydrolase [Arabidopsis thaliana]		
Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107870	Strand	+
Start	10085	End	12013
Name	OJ000229_10.0419.C18.o6.gp	Method	AAT/GAP
Start	10472	End	12013
GI	71515_1.R1084	Score	1708

Exons 10472..10497, 10587..10929, 11146..11244, 11321..11441, 11645..12013
 GI Descrip. '5103847/gb|AAD39677.1|AC007591_42 6.0e-12 (AC007591) Contains PF_00561 alpha/beta hydrolase fold. [Arabidopsis thaliana]'

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107871	Strand	-
Start	1047	End	4782
Name	OJ000229_10.0419.C18.o1.gs	Method	GENSCAN
Start	1047	End	4368
GI	none	Score	.56
Exons	1047..1547, 2477..2644, 2898..3092, 3513..3695, 4246..4368		

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107871	Strand	-
Start	1047	End	4782
Name	OJ000229_10.0419.C18.o1.gp	Method	AAT/GAP
Start	1515	End	1794
GI	none	Score	530
Exons	1515..1794		

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107871	Strand	-
Start	1047	End	4782
Name	OJ000229_10.0419.C18.o2.np	Method	AAT/NAP
Start	1844	End	4782
GI	1946366	Score	269
Exons	1844..1894, 2477..2644, 2898..2924, 2973..3092, 3281..3360, 3482..3689, 4514..4782		

GI Descrip. (U93215) unknown protein [Arabidopsis thaliana]

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107871	Strand	-
Start	1047	End	4782
Name	OJ000229_10.0419.C18.o1.np	Method	AAT/NAP
Start	2477	End	4368
GI	7340671	Score	246
Exons	2477..2644, 2898..3092, 3281..3406, 3555..3694, 4269..4368		

GI Descrip. (AL162508) putative protein [Arabidopsis thaliana]

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107871	Strand	-
Start	1047	End	4782
Name	OJ000229_10.0419.C18.o2.gp	Method	AAT/GAP
Start	2777	End	3460
GI	LIB3479-006-Q6-K1-H9	Score	774
Exons	2777..3092, 3281..3460		

GI Descrip. '1946366 4.0e-16 (U93215) unknown protein [Arabidopsis thaliana]'

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107871	Strand	-
Start	1047	End	4782
Name	OJ000229_10.0419.C18.o3.gp	Method	AAT/GAP
Start	3023	End	3703
GI	LIB3479-006-Q6-K1-H9	Score	662
Exons	3023..3092, 3281..3406, 3513..3703		

GI Descrip. '1946366 4.0e-16 (U93215) unknown protein [Arabidopsis thaliana]'

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107872	Strand	-
Start	7537	End	10189
Name	OJ000229_10.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	2473	End	3092
GI	none	Score	128
Exons	2473..2607, 2474..2644, 2475..2645, 2585..2647, 2851..2976, 2895..2975, 2973..3092, 2974..3090		

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107872	Strand	-
Start	7537	End	10189
Name	OJ000229_10.0419.C18.o4.tm	Method	TBLASTX:Maize
Start	3277	End	3711
GI	none	Score	69
Exons	3277..3396, 3279..3398, 3284..3397, 3512..3709, 3549..3656, 3556..3711, 3601..3696		

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107872	Strand	-
Start	7537	End	10189
Name	OJ000229_10.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	5723	End	6237
GI	none	Score	244
Exons	5723..5920, 5728..5919, 6130..6234, 6156..6236, 6157..6237		

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107872	Strand	-
Start	7537	End	10189
Name	OJ000229_10.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	5723	End	5875
GI	none	Score	201
Exons	5723..5875, 5734..5871		

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107872	Strand	-
Start	7537	End	10189
Name	OJ000229_10.0419.C18.o3.tm	Method	TBLASTX:Maize
Start	5752	End	5920
GI	none	Score	193
Exons	5752..5919, 5753..5920		

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107872	Strand	-
Start	7537	End	10189
Name	OJ000229_10.0419.C18.o4.np	Method	AAT/NAP
Start	7537	End	10189
GI	6907106	Score	180
Exons	7537..7714, 7933..8004, 8325..8423, 10037..10189		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107873	Strand	

Start	10133	End	10438
Name	OJ000229_10.0419.C18.o2.tc	Method	TBLASTX:Cress
Start	10133	End	10438
GI	none	Score	225
Exons	10133..10381, 10240..10383, 10397..10438		

Seq. No.	50873	Seq. ID	OJ000229_10.0419.C18
Gene No.	107874	Strand	
Start	10837	End	11865
Name	OJ000229_10.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	10837	End	11865
GI	none	Score	65
Exons	10837..10908, 11115..11240, 11137..11244, 11145..11240, 11146..11244, 11312..11440, 11320..11448, 11320..11439, 11330..11440, 11642..11782, 11643..11828, 11644..11838, 11833..11865		

Seq. No.	50874	Seq. ID	OJ000229_10.0419.C19
Gene No.	107875	Strand	+
Start	213	End	2070
Name	OJ000229_10.0419.C19.o1.gs	Method	GENSCAN
Start	213	End	2070
GI	none	Score	.71
Exons	213..266, 776..805, 1230..1349, 1678..1708, 1886..2070		

Seq. No.	50875	Seq. ID	OJ000229_10.0419.C20
Gene No.	107876	Strand	+
Start	358	End	1295
Name	OJ000229_10.0419.C20.o1.gs	Method	GENSCAN
Start	358	End	1295
GI	none	Score	.68
Exons	358..467, 560..856, 861..944, 1264..1295		

Seq. No.	50875	Seq. ID	OJ000229_10.0419.C20
Gene No.	107877	Strand	+
Start	1853	End	3014
Name	OJ000229_10.0419.C20.o3.np	Method	AAT/NAP
Start	1853	End	3014
GI	6721561	Score	92
Exons	1853..1959, 2981..3014		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50875	Seq. ID	OJ000229_10.0419.C20
Gene No.	107878	Strand	-
Start	1	End	417
Name	OJ000229_10.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	417
GI	6721559	Score	212
Exons	1..417		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815084 dbj BAA90370.1 (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	50875	Seq. ID	OJ000229_10.0419.C20
Gene No.	107879	Strand	-
Start	1983	End	3014
Name	OJ000229_10.0419.C20.o2.np	Method	AAT/NAP
Start	1731	End	3014
GI	4680183	Score	120
Exons	1731..1820, 2989..3014		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	50875	Seq. ID	OJ000229_10.0419.C20
Gene No.	107879	Strand	-
Start	1983	End	3014
Name	OJ000229_10.0419.C20.o2.gs	Method	GENSCAN
Start	1983	End	2219
GI	none	Score	.42
Exons	1983..2219		

Seq. No.	50875	Seq. ID	OJ000229_10.0419.C20
Gene No.	107879	Strand	-
Start	1983	End	3014
Name	OJ000229_10.0419.C20.o3.gs	Method	GENSCAN
Start	2696	End	2896
GI	none	Score	.99
Exons	2696..2896		

Seq. No.	50876	Seq. ID	OJ000229_10.0419.C21
Gene No.	107880	Strand	+
Start	447	End	1975
Name	OJ000229_10.0419.C21.o3.tm	Method	TBLASTX:Maize
Start	434	End	671
GI	none	Score	117
Exons	434..598, 444..671, 444..662		

Seq. No.	50876	Seq. ID	OJ000229_10.0419.C21
Gene No.	107880	Strand	+
Start	447	End	1975
Name	OJ000229_10.0419.C21.o1.gs	Method	GENSCAN
Start	447	End	1808
GI	none	Score	.41
Exons	447..1808		

Seq. No.	50876	Seq. ID	OJ000229_10.0419.C21
Gene No.	107880	Strand	+
Start	447	End	1975
Name	OJ000229_10.0419.C21.o1.np	Method	AAT/NAP
Start	453	End	1926
GI	7340672	Score	478
Exons	453..1643, 1692..1926		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		

Seq. No.	50876	Seq. ID	OJ000229_10.0419.C21
Gene No.	107880	Strand	+
Start	447	End	1975
Name	OJ000229_10.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	761	End	1306
GI	none	Score	79
Exons	761..925, 771..968, 797..910, 825..968, 948..1100, 960..1085,		

1047..1304, 1084..1305, 1085..1306

Seq. No.	50876	Seq. ID	OJ000229_10.0419.C21
Gene No.	107880	Strand	+
Start	447	End	1975
Name	OJ000229_10.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	1272	End	1613
GI	none	Score	90
Exons	1272..1379, 1274..1375, 1341..1448, 1352..1411, 1436..1567, 1440..1613		

Seq. No.	50876	Seq. ID	OJ000229_10.0419.C21
Gene No.	107880	Strand	+
Start	447	End	1975
Name	OJ000229_10.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	1334	End	1656
GI	none	Score	411
Exons	1334..1627, 1338..1652, 1341..1649, 1489..1656		

Seq. No.	50876	Seq. ID	OJ000229_10.0419.C21
Gene No.	107880	Strand	+
Start	447	End	1975
Name	OJ000229_10.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	1350	End	1586
GI	none	Score	246
Exons	1350..1586, 1358..1573		

Seq. No.	50876	Seq. ID	OJ000229_10.0419.C21
Gene No.	107880	Strand	+
Start	447	End	1975
Name	OJ000229_10.0419.C21.o4.tm	Method	TBLASTX:Maize
Start	1758	End	1975
GI	none	Score	210
Exons	1758..1946, 1781..1975, 1781..1945		

Seq. No.	50877	Seq. ID	OJ000229_10.0419.C23
Gene No.	107881	Strand	-
Start	338	End	983
Name	OJ000229_10.0419.C23.o1.np	Method	AAT/NAP
Start	338	End	983
GI	7340671	Score	145
Exons	338..478, 551..713, 960..983		
GI Descrip.	(AL162508) putative protein [Arabidopsis thaliana]		

Seq. No.	50877	Seq. ID	OJ000229_10.0419.C23
Gene No.	107881	Strand	-
Start	338	End	983
Name	OJ000229_10.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	558	End	720
GI	none	Score	116
Exons	558..713, 586..720		

Seq. No.	50878	Seq. ID	OJ000229_10.0419.C26
Gene No.	107882	Strand	+
Start	338	End	3809
Name	OJ000229_10.0419.C26.o1.gp	Method	AAT/GAP
Start	338	End	3809

GI 18282_1.R1084 Score 1683
 Exons 338..608, 1768..2102, 2756..2891, 3674..3809
 GI Descrip. '3805765 1.0e-123 (AC005693) putative protein kinase
 [Arabidopsis thaliana]'

Seq. No. 50878 Seq. ID OJ000229_10.0419.C26
 Gene No. 107882 Strand +
 Start 338 End 3809
 Name OJ000229_10.0419.C26.o1.gs Method GENSCAN
 Start 554 End 2965
 GI none Score .77
 Exons 554..608, 1768..2102, 2756..2965

Seq. No. 50878 Seq. ID OJ000229_10.0419.C26
 Gene No. 107882 Strand +
 Start 338 End 3809
 Name OJ000229_10.0419.C26.o1.np Method AAT/NAP
 Start 1748 End 3809
 GI 3805765 Score 482
 Exons 1748..2102, 2756..2891, 3674..3809
 GI Descrip. (AC005693) putative protein kinase [Arabidopsis thaliana]

Seq. No. 50878 Seq. ID OJ000229_10.0419.C26
 Gene No. 107883 Strand -
 Start 3627 End 3817
 Name OJ000229_10.0419.C26.o1.ts Method TBLASTX:Soybean
 Start 533 End 3794
 GI none Score 65
 Exons 533..595, 1836..2120, 1878..2117, 2755..2889, 2756..2890,
 2774..2890, 2776..2892, 3663..3794, 3685..3792

Seq. No. 50878 Seq. ID OJ000229_10.0419.C26
 Gene No. 107883 Strand -
 Start 3627 End 3817
 Name OJ000229_10.0419.C26.o1.tm Method TBLASTX:Maize
 Start 539 End 3817
 GI none Score 96
 Exons 539..607, 552..608, 1759..2100, 1767..2102, 1767..2102,
 1783..2103, 2755..2895, 2756..2890, 2761..2892, 3663..3791,
 3672..3791, 3674..3817, 3676..3792

Seq. No. 50878 Seq. ID OJ000229_10.0419.C26
 Gene No. 107883 Strand -
 Start 3627 End 3817
 Name OJ000229_10.0419.C26.o1.tc Method TBLASTX:Cress
 Start 554 End 2803
 GI none Score 62
 Exons 554..607, 1815..2030, 1820..1966, 2031..2120, 2756..2803

Seq. No. 50878 Seq. ID OJ000229_10.0419.C26
 Gene No. 107883 Strand -
 Start 3627 End 3817
 Name OJ000229_10.0419.C26.o2.gs Method GENSCAN
 Start 3627 End 3754
 GI none Score .73
 Exons 3627..3754

Seq. No. 50879
 Gene No. 107884
 Start 558
 Name OJ000229_11.0419.C2.o1.gs
 Start 558
 GI none
 Exons 558..766

Seq. ID OJ000229_11.0419.C2
 Strand +
 End 766
 Method GENSCAN
 End 766
 Score .9

Seq. No. 50879
 Gene No. 107885
 Start 1472
 Name OJ000229_11.0419.C2.o2.gs
 Start 1472
 GI none
 Exons 1472..1579, 2450..2860, 3192..3516, 3568..3827, 4795..4942

Seq. ID OJ000229_11.0419.C2
 Strand -
 End 4942
 Method GENSCAN
 End 4942
 Score .57

Seq. No. 50880
 Gene No. 107886
 Start 187
 Name OJ000229_11.0419.C3.o1.gs
 Start 187
 GI none
 Exons 187..336, 474..791

Seq. ID OJ000229_11.0419.C3
 Strand +
 End 791
 Method GENSCAN
 End 791
 Score .9

Seq. No. 50880
 Gene No. 107887
 Start 1511
 Name OJ000229_11.0419.C3.o1.tm
 Start 1478
 GI none
 Exons 1478..1717, 1504..1632, 1530..1715, 1574..1717

Seq. ID OJ000229_11.0419.C3
 Strand -
 End 2078
 Method TBLASTX:Maize
 End 1717
 Score 77

Seq. No. 50880
 Gene No. 107887
 Start 1511
 Name OJ000229_11.0419.C3.o2.gs
 Start 1511
 GI none
 Exons 1511..2011

Seq. ID OJ000229_11.0419.C3
 Strand -
 End 2078
 Method GENSCAN
 End 2011
 Score .87

Seq. No. 50880
 Gene No. 107887
 Start 1511
 Name OJ000229_11.0419.C3.o1.np
 Start 1517
 GI 6453878
 Exons 1517..2078

Seq. ID OJ000229_11.0419.C3
 Strand -
 End 2078
 Method AAT/NAP
 End 2078
 Score 476

GI Descrip. (AC011717) putative aspartyl protease [Arabidopsis thaliana]

Seq. No. 50880
 Gene No. 107887
 Start 1511
 Name OJ000229_11.0419.C3.o1.tc
 Start 1520
 GI none
 Exons 1520..1723, 1521..1772, 1523..1813, 1826..1900, 1830..1901

Seq. ID OJ000229_11.0419.C3
 Strand -
 End 2078
 Method TBLASTX:Cress
 End 1901
 Score 64

Seq. No.	50880	Seq. ID	OJ000229_11.0419.C3
Gene No.	107887	Strand	-
Start	1511	End	2078
Name	OJ000229_11.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	1521	End	1901
GI	none	Score	75
Exons	1521..1655, 1523..1654, 1668..1778, 1670..1825, 1838..1900, 1869..1901		

Seq. No.	50881	Seq. ID	OJ000229_11.0419.C4
Gene No.	107888	Strand	-
Start	1	End	2268
Name	OJ000229_11.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	588
GI	6453878	Score	250
Exons	1..588		
GI Descrip.	(AC011717) putative aspartyl protease [Arabidopsis thaliana]		

Seq. No.	50881	Seq. ID	OJ000229_11.0419.C4
Gene No.	107888	Strand	-
Start	1	End	2268
Name	OJ000229_11.0419.C4.o1.gs	Method	GENSCAN
Start	28	End	2268
GI	none	Score	1
Exons	28..592, 2082..2268		

Seq. No.	50881	Seq. ID	OJ000229_11.0419.C4
Gene No.	107888	Strand	-
Start	1	End	2268
Name	OJ000229_11.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	91	End	254
GI	none	Score	136
Exons	91..243, 111..254		

Seq. No.	50882	Seq. ID	OJ000229_11.0419.C5
Gene No.	107889	Strand	+
Start	87	End	734
Name	OJ000229_11.0419.C5.o1.gs	Method	GENSCAN
Start	87	End	734
GI	none	Score	.92
Exons	87..330, 536..734		

Seq. No.	50883	Seq. ID	OJ000229_11.0419.C8
Gene No.	107890	Strand	+
Start	72	End	1186
Name	OJ000229_11.0419.C8.o1.gs	Method	GENSCAN
Start	72	End	1186
GI	none	Score	.82
Exons	72..220, 407..568, 907..1004, 1047..1186		

Seq. No.	50883	Seq. ID	OJ000229_11.0419.C8
Gene No.	107891	Strand	-
Start	2305	End	2915
Name	OJ000229_11.0419.C8.o2.gs	Method	GENSCAN
Start	2305	End	2915
GI	none	Score	.77
Exons	2305..2344, 2611..2915		

Seq. No.	50884	Seq. ID	OJ000229_11.0419.C10
Gene No.	107892	Strand	+
Start	678	End	829
Name	OJ000229_11.0419.C10.o1.np	Method	AAT/NAP
Start	678	End	829
GI	544262	Score	53
Exons	678..829		
GI Descrip.	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN PRECURSOR (PELP) gi 322761 pir JQ1696 pistil extensin-like protein precursor (clone pMG15) - common tobacco gi 19929 emb CAA78397 (Z14019) pistil extensin like protein [Nicotiana tabacum]		

Seq. No.	50884	Seq. ID	OJ000229_11.0419.C10
Gene No.	107893	Strand	+
Start	820	End	1019
Name	OJ000229_11.0419.C10.o1.gs	Method	GENSCAN
Start	820	End	993
GI	none	Score	.65
Exons	820..993		

Seq. No.	50884	Seq. ID	OJ000229_11.0419.C10
Gene No.	107893	Strand	+
Start	820	End	1019
Name	OJ000229_11.0419.C10.o2.np	Method	AAT/NAP
Start	870	End	1019
GI	6996291	Score	111
Exons	870..1019		
GI Descrip.	(AL138659) putative protein [Arabidopsis thaliana]		

Seq. No.	50885	Seq. ID	OJ000229_11.0419.C11
Gene No.	107894	Strand	-
Start	1	End	701
Name	OJ000229_11.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	701
GI	7248394	Score	371
Exons	1..36, 69..701		
GI Descrip.	(AP001389) ESTs C97394 (C60113), AU075824 (R0165), D38985 (R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	50885	Seq. ID	OJ000229_11.0419.C11
Gene No.	107894	Strand	-
Start	1	End	701
Name	OJ000229_11.0419.C11.o1.gs	Method	GENSCAN
Start	168	End	655
GI	none	Score	.67
Exons	168..242, 413..486, 586..655		

Seq. No.	50886	Seq. ID	OJ000229_11.0419.C13
Gene No.	107895	Strand	-
Start	1086	End	1299
Name	OJ000229_11.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	32	End	319
GI	none	Score	208

Exons 32..319

Seq. No.	50886	Seq. ID	OJ000229_11.0419.C13
Gene No.	107895	Strand	-
Start	1086	End	1299
Name	OJ000229_11.0419.C13.o1.gs	Method	GENSCAN
Start	1086	End	1299
GI	none	Score	.5
Exons	1086..1299		

Seq. No.	50887	Seq. ID	OJ000229_11.0419.C14
Gene No.	107896	Strand	+
Start	347	End	1019
Name	OJ000229_11.0419.C14.o1.gs	Method	GENSCAN
Start	347	End	1019
GI	none	Score	.42
Exons	347..445, 993..1019		

Seq. No.	50887	Seq. ID	OJ000229_11.0419.C14
Gene No.	107897	Strand	-
Start	3317	End	4443
Name	OJ000229_11.0419.C14.o1.np	Method	AAT/NAP
Start	3315	End	4443
GI	6996291	Score	95
Exons	3315..3415, 3515..3669, 4423..4443		
GI Descrip.	(AL138659) putative protein [Arabidopsis thaliana]		

Seq. No.	50887	Seq. ID	OJ000229_11.0419.C14
Gene No.	107897	Strand	-
Start	3317	End	4443
Name	OJ000229_11.0419.C14.o2.gs	Method	GENSCAN
Start	3317	End	4415
GI	none	Score	.85
Exons	3317..3415, 3589..3647, 3774..4160, 4178..4415		

Seq. No.	50888	Seq. ID	OJ000229_11.0419.C16
Gene No.	107898	Strand	+
Start	3434	End	5414
Name	OJ000229_11.0419.C16.o1.np	Method	AAT/NAP
Start	3425	End	5414
GI	2980782	Score	281
Exons	3425..4044, 5317..5414		
GI Descrip.	(AL022198) hypothetical protein [Arabidopsis thaliana] gi 7269985 emb CAB79802.1 (AL161577) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50888	Seq. ID	OJ000229_11.0419.C16
Gene No.	107898	Strand	+
Start	3434	End	5414
Name	OJ000229_11.0419.C16.o2.gs	Method	GENSCAN
Start	3434	End	5386
GI	none	Score	.97
Exons	3434..4044, 5317..5386		

Seq. No.	50888	Seq. ID	OJ000229_11.0419.C16
Gene No.	107899	Strand	-
Start	609	End	1085

Name OJ000229_11.0419.C16.o1.gs
 Start 609
 GI none
 Exons 609..748, 1027..1085

Method GENSCAN
 End 1085
 Score .68

Seq. No. 50889
 Gene No. 107900
 Start 1
 Name OJ000229_11.0419.C17.o1.np
 Start 1
 GI 6815099
 Exons 1..101, 165..293
 GI Descrip. (AP001081) hypothetical protein [Oryza sativa]

Seq. ID OJ000229_11.0419.C17
 Strand +
 End 293
 Method AAT/NAP
 End 293
 Score 89

Seq. No. 50889
 Gene No. 107901
 Start 600
 Name OJ000229_11.0419.C17.o1.gs
 Start 600
 GI none
 Exons 600..693

Seq. ID OJ000229_11.0419.C17
 Strand -
 End 693
 Method GENSCAN
 End 693
 Score .58

Seq. No. 50890
 Gene No. 107902
 Start 437
 Name OJ000309_11.0424.C1.o1.np
 Start 435
 GI 4512231
 Exons 435..862
 GI Descrip. (AB014741) ORF0 protein [Oryza sativa]

Seq. ID OJ000309_11.0424.C1
 Strand -
 End 862
 Method AAT/NAP
 End 862
 Score 562

Seq. No. 50890
 Gene No. 107902
 Start 437
 Name OJ000309_11.0424.C1.o1.gs
 Start 437
 GI none
 Exons 437..758

Seq. ID OJ000309_11.0424.C1
 Strand -
 End 862
 Method GENSCAN
 End 758
 Score .65

Seq. No. 50891
 Gene No. 107903
 Start 13
 Name OJ000309_11.0424.C3.o1.gs
 Start 13
 GI none
 Exons 13..128, 386..473

Seq. ID OJ000309_11.0424.C3
 Strand +
 End 473
 Method GENSCAN
 End 473
 Score .79

Seq. No. 50892
 Gene No. 107904
 Start 659
 Name OJ000309_11.0424.C4.o1.gs
 Start 659
 GI none
 Exons 659..753, 1261..1315

Seq. ID OJ000309_11.0424.C4
 Strand -
 End 1315
 Method GENSCAN
 End 1315
 Score .45

Seq. No. 50893
 Gene No. 107905

Seq. ID OJ000309_11.0424.C5
 Strand +

Start	375	End	1958
Name	OJ000309_11.0424.C5.o1.gs	Method	GENSCAN
Start	375	End	1958
GI	none	Score	.53
Exons	375..434, 658..1498, 1540..1958		

Seq. No.	50893	Seq. ID	OJ000309_11.0424.C5
Gene No.	107906	Strand	+
Start	2899	End	3892
Name	OJ000309_11.0424.C5.o2.gs	Method	GENSCAN
Start	2899	End	3892
GI	none	Score	.6
Exons	2899..3124, 3783..3892		

Seq. No.	50894	Seq. ID	OJ000309_11.0424.C6
Gene No.	107907	Strand	+
Start	22	End	862
Name	OJ000309_11.0424.C6.o1.gs	Method	GENSCAN
Start	22	End	862
GI	none	Score	.78
Exons	22..862		

Seq. No.	50894	Seq. ID	OJ000309_11.0424.C6
Gene No.	107907	Strand	+
Start	22	End	862
Name	OJ000309_11.0424.C6.o1.tm	Method	TBLASTX:Maize
Start	302	End	504
GI	none	Score	96
Exons	302..469, 312..431, 313..504, 313..504		

Seq. No.	50895	Seq. ID	OJ000309_11.0424.C7
Gene No.	107908	Strand	+
Start	85	End	916
Name	OJ000309_11.0424.C7.o1.gs	Method	GENSCAN
Start	85	End	916
GI	none	Score	.93
Exons	85..261, 335..916		

Seq. No.	50895	Seq. ID	OJ000309_11.0424.C7
Gene No.	107909	Strand	+
Start	3199	End	3591
Name	OJ000309_11.0424.C7.o2.gs	Method	GENSCAN
Start	3199	End	3591
GI	none	Score	.99
Exons	3199..3591		

Seq. No.	50895	Seq. ID	OJ000309_11.0424.C7
Gene No.	107910	Strand	-
Start	5630	End	7189
Name	OJ000309_11.0424.C7.o3.gs	Method	GENSCAN
Start	5630	End	7189
GI	none	Score	1
Exons	5630..7189		

Seq. No.	50896	Seq. ID	OJ000309_11.0424.C8
Gene No.	107911	Strand	+
Start	201	End	3824

Name	OJ000309_11.0424.C8.o1.gs	Method	GENSCAN
Start	201	End	3824
GI	none	Score	.64
Exons	201..314, 675..980, 3037..3123, 3708..3824		

Seq. No.	50896	Seq. ID	OJ000309_11.0424.C8
Gene No.	107912	Strand	+
Start	5059	End	5283
Name	OJ000309_11.0424.C8.o2.gs	Method	GENSCAN
Start	5059	End	5283
GI	none	Score	.96
Exons	5059..5283		

Seq. No.	50896	Seq. ID	OJ000309_11.0424.C8
Gene No.	107913	Strand	-
Start	6673	End	7078
Name	OJ000309_11.0424.C8.o3.gs	Method	GENSCAN
Start	6673	End	7078
GI	none	Score	.41
Exons	6673..6867, 6955..7078		

Seq. No.	50897	Seq. ID	OJ000309_11.0424.C9
Gene No.	107914	Strand	+
Start	2117	End	2323
Name	OJ000309_11.0424.C9.o1.np	Method	AAT/NAP
Start	2117	End	2323
GI	4417306	Score	115
Exons	2117..2323		
GI Descrip.	(AC006446) putative Athila retroelement ORF1 protein [Arabidopsis thaliana]		

Seq. No.	50897	Seq. ID	OJ000309_11.0424.C9
Gene No.	107915	Strand	-
Start	1229	End	2232
Name	OJ000309_11.0424.C9.o2.gs	Method	GENSCAN
Start	1229	End	2232
GI	none	Score	.79
Exons	1229..1333, 1860..1952, 2118..2232		

Seq. No.	50898	Seq. ID	OJ000309_11.0424.C10
Gene No.	107916	Strand	+
Start	1	End	4167
Name	OJ000309_11.0424.C10.o1.np	Method	AAT/NAP
Start	1	End	1729
GI	7523686	Score	79
Exons	1..255, 1649..1729		
GI Descrip.	(AC009526) Similar to Athila ORF 1 [Arabidopsis thaliana]		

Seq. No.	50898	Seq. ID	OJ000309_11.0424.C10
Gene No.	107916	Strand	+
Start	1	End	4167
Name	OJ000309_11.0424.C10.o2.np	Method	AAT/NAP
Start	1	End	4167
GI	5852181	Score	80
Exons	1..64, 2952..3163, 4106..4167		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	50898	Seq. ID	OJ000309_11.0424.C10
Gene No.	107916	Strand	+
Start	1	End	4167
Name	OJ000309_11.0424.C10.o1.gs	Method	GENSCAN
Start	101	End	2081
GI	none	Score	.64
Exons	101..255, 1600..1649, 1687..1771, 1797..1939, 1985..2081		

Seq. No.	50898	Seq. ID	OJ000309_11.0424.C10
Gene No.	107917	Strand	-
Start	3152	End	4068
Name	OJ000309_11.0424.C10.o2.gs	Method	GENSCAN
Start	3152	End	4068
GI	none	Score	.56
Exons	3152..3347, 4034..4068		

Seq. No.	50899	Seq. ID	OJ000309_11.0424.C11
Gene No.	107918	Strand	+
Start	522	End	5167
Name	OJ000309_11.0424.C11.o1.np	Method	AAT/NAP
Start	522	End	5167
GI	5257279	Score	1722
Exons	522..679, 3662..4199, 4264..5167		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	50899	Seq. ID	OJ000309_11.0424.C11
Gene No.	107919	Strand	-
Start	5191	End	5514
Name	OJ000309_11.0424.C11.o2.np	Method	AAT/NAP
Start	5191	End	5371
GI	7106512	Score	118
Exons	5191..5238, 5312..5371		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50899	Seq. ID	OJ000309_11.0424.C11
Gene No.	107919	Strand	-
Start	5191	End	5514
Name	OJ000309_11.0424.C11.o1.gp	Method	AAT/GAP
Start	5269	End	5514
GI	3761181	Score	393
Exons	5269..5514		
GI Descrip.	4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	50899	Seq. ID	OJ000309_11.0424.C11
Gene No.	107920	Strand	-
Start	7592	End	8425
Name	OJ000309_11.0424.C11.o2.tw	Method	TBLASTX:Wheat
Start	3771	End	4208
GI	none	Score	490
Exons	3771..4208, 3782..4195, 3876..4202		

Seq. No.	50899	Seq. ID	OJ000309_11.0424.C11
Gene No.	107920	Strand	-
Start	7592	End	8425

Name	OJ000309_11.0424.C11.o2.tm	Method	TBLASTX:Maize
Start	3780	End	4072
GI	none	Score	343
Exons	3780..4070, 3830..4072		

Seq. No.	50899	Seq. ID	OJ000309_11.0424.C11
Gene No.	107920	Strand	-
Start	7592	End	8425
Name	OJ000309_11.0424.C11.o1.ts	Method	TBLASTX:Soybean
Start	4264	End	4651
GI	none	Score	40
Exons	4264..4290, 4264..4317, 4294..4464, 4296..4466, 4463..4651, 4468..4650		

Seq. No.	50899	Seq. ID	OJ000309_11.0424.C11
Gene No.	107920	Strand	-
Start	7592	End	8425
Name	OJ000309_11.0424.C11.o3.tw	Method	TBLASTX:Wheat
Start	4366	End	4633
GI	none	Score	110
Exons	4366..4464, 4368..4463, 4376..4468, 4463..4633, 4477..4632		

Seq. No.	50899	Seq. ID	OJ000309_11.0424.C11
Gene No.	107920	Strand	-
Start	7592	End	8425
Name	OJ000309_11.0424.C11.o1.tm	Method	TBLASTX:Maize
Start	4549	End	4978
GI	none	Score	435
Exons	4549..4965, 4553..4978		

Seq. No.	50899	Seq. ID	OJ000309_11.0424.C11
Gene No.	107920	Strand	-
Start	7592	End	8425
Name	OJ000309_11.0424.C11.o1.tw	Method	TBLASTX:Wheat
Start	4636	End	5050
GI	none	Score	528
Exons	4636..5028, 4637..5050, 4712..5032		

Seq. No.	50899	Seq. ID	OJ000309_11.0424.C11
Gene No.	107920	Strand	-
Start	7592	End	8425
Name	OJ000309_11.0424.C11.o2.gs	Method	GENSCAN
Start	7592	End	8425
GI	none	Score	.85
Exons	7592..7839, 7894..8425		

Seq. No.	50899	Seq. ID	OJ000309_11.0424.C11
Gene No.	107920	Strand	-
Start	7592	End	8425
Name	OJ000309_11.0424.C11.o3.np	Method	AAT/NAP
Start	7639	End	8425
GI	7106512	Score	904
Exons	7639..7839, 7894..8425		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50900	Seq. ID	OJ000309_11.0424.C15
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Gene No.	107921	Strand	-
Start	1	End	436
Name	OJ000309_11.0424.C15.o1.np	Method	AAT/NAP
Start	1	End	436
GI	6983860	Score	453
Exons	1..436		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	50900	Seq. ID	OJ000309_11.0424.C15
Gene No.	107921	Strand	-
Start	1	End	436
Name	OJ000309_11.0424.C15.o1.tw	Method	TBLASTX:Wheat
Start	1	End	404
GI	none	Score	67
Exons	1..75, 2..76, 75..404, 78..290, 133..393		

Seq. No.	50901	Seq. ID	OJ000309_11.0424.C17
Gene No.	107922	Strand	+
Start	1	End	778
Name	OJ000309_11.0424.C17.o1.np	Method	AAT/NAP
Start	1	End	778
GI	7106512	Score	689
Exons	1..586, 760..778		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50901	Seq. ID	OJ000309_11.0424.C17
Gene No.	107922	Strand	+
Start	1	End	778
Name	OJ000309_11.0424.C17.o1.gs	Method	GENSCAN
Start	15	End	593
GI	none	Score	1
Exons	15..593		

Seq. No.	50902	Seq. ID	OJ000309_11.0424.C20
Gene No.	107923	Strand	-
Start	1	End	1103
Name	OJ000309_11.0424.C20.o1.np	Method	AAT/NAP
Start	1	End	1103
GI	6983860	Score	1286
Exons	1..181, 437..1103		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	50902	Seq. ID	OJ000309_11.0424.C20
Gene No.	107923	Strand	-
Start	1	End	1103
Name	OJ000309_11.0424.C20.o2.tw	Method	TBLASTX:Wheat
Start	84	End	437
GI	none	Score	203
Exons	84..437		

Seq. No.	50902	Seq. ID	OJ000309_11.0424.C20
Gene No.	107923	Strand	-
Start	1	End	1103
Name	OJ000309_11.0424.C20.o1.tw	Method	TBLASTX:Wheat

Start 274
GI none
Exons 274..312, 771..1103

End 1103
Score 52

Seq. No. 50902
Gene No. 107923
Start 1
Name OJ000309_11.0424.C20.o1.gs
Start 336
GI none
Exons 336..710, 729..1048

Seq. ID OJ000309_11.0424.C20
Strand -
End 1103
Method GENSCAN
End 1048
Score .62

Seq. No. 50902
Gene No. 107923
Start 1
Name OJ000309_11.0424.C20.o1.tm
Start 783
GI none
Exons 783..1103, 912..1094

Seq. ID OJ000309_11.0424.C20
Strand -
End 1103
Method TBLASTX:Maize
End 1103
Score 72

Seq. No. 50903
Gene No. 107924
Start 31
Name OJ000309_11.0424.C23.o1.gs
Start 31
GI none
Exons 31..73, 1338..1419, 2440..2570

Seq. ID OJ000309_11.0424.C23
Strand +
End 2570
Method GENSCAN
End 2570
Score .43

Seq. No. 50904
Gene No. 107925
Start 1106
Name OJ000309_11.0424.C24.o1.gp
Start 1106
GI 48723_1.R1084
Exons 1106..1185, 1278..1359, 1508..1650, 1758..1988
GI Descrip. '4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'

Seq. ID OJ000309_11.0424.C24
Strand +
End 2516
Method AAT/GAP
End 1988
Score 944

Seq. No. 50904
Gene No. 107925
Start 1106
Name OJ000309_11.0424.C24.o1.gs
Start 1508
GI none
Exons 1508..1650, 1758..2033, 2337..2516

Seq. ID OJ000309_11.0424.C24
Strand +
End 2516
Method GENSCAN
End 2516
Score .98

Seq. No. 50904
Gene No. 107926
Start 2804
Name OJ000309_11.0424.C24.o2.gs
Start 2804
GI none
Exons 2804..3205

Seq. ID OJ000309_11.0424.C24
Strand -
End 3205
Method GENSCAN
End 3205
Score .97

Seq. No. 50905
Gene No. 107927
Start 2203

Seq. ID OJ000309_11.0424.C27
Strand +
End 8852

Name	OJ000309_11.0424.C27.o1.gs	Method	GENSCAN
Start	2203	End	8462
GI	none	Score	.45
Exons	2203..2378, 2502..2632, 4012..4096, 4130..4204, 4514..4640, 4914..5087, 5156..5456, 5527..6872, 6948..7322, 7356..7542, 8326..8462		

Seq. No.	50905	Seq. ID	OJ000309_11.0424.C27
Gene No.	107927	Strand	+
Start	2203	End	8852
Name	OJ000309_11.0424.C27.o1.np	Method	AAT/NAP
Start	4853	End	8852
GI	6539588	Score	95
Exons	4853..5073, 8825..8852		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	50906	Seq. ID	OJ000309_11.0424.C28
Gene No.	107928	Strand	+
Start	1	End	1742
Name	OJ000309_11.0424.C28.o1.np	Method	AAT/NAP
Start	1	End	1742
GI	6539588	Score	110
Exons	1..215, 1710..1742		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	50906	Seq. ID	OJ000309_11.0424.C28
Gene No.	107928	Strand	+
Start	1	End	1742
Name	OJ000309_11.0424.C28.o1.gs	Method	GENSCAN
Start	121	End	1111
GI	none	Score	.78
Exons	121..232, 932..1111		

Seq. No.	50906	Seq. ID	OJ000309_11.0424.C28
Gene No.	107929	Strand	-
Start	1443	End	3059
Name	OJ000309_11.0424.C28.o2.gs	Method	GENSCAN
Start	1443	End	3059
GI	none	Score	1
Exons	1443..3059		

Seq. No.	50907	Seq. ID	OJ000309_11.0424.C29
Gene No.	107930	Strand	+
Start	330	End	503
Name	OJ000309_11.0424.C29.o1.gs	Method	GENSCAN
Start	330	End	503
GI	none	Score	.46
Exons	330..503		

Seq. No.	50908	Seq. ID	OJ000309_11.0424.C30
Gene No.	107931	Strand	+
Start	565	End	1625
Name	OJ000309_11.0424.C30.o1.np	Method	AAT/NAP
Start	565	End	1625
GI	7106516	Score	58
Exons	565..712, 1596..1625		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	50908	Seq. ID	OJ000309_11.0424.C30
Gene No.	107932	Strand	-
Start	1050	End	1374
Name	OJ000309_11.0424.C30.o1.gs	Method	GENSCAN
Start	1050	End	1374
GI	none	Score	.98
Exons	1050..1229, 1315..1374		

Seq. No.	50909	Seq. ID	OJ000309_11.0424.C31
Gene No.	107933	Strand	+
Start	23	End	2389
Name	OJ000309_11.0424.C31.o1.gs	Method	GENSCAN
Start	23	End	1450
GI	none	Score	.69
Exons	23..392, 845..913, 1018..1245, 1338..1450		

Seq. No.	50909	Seq. ID	OJ000309_11.0424.C31
Gene No.	107933	Strand	+
Start	23	End	2389
Name	OJ000309_11.0424.C31.o1.np	Method	AAT/NAP
Start	988	End	2389
GI	7489805	Score	335
Exons	988..1513, 2310..2389		
GI Descrip.	polyprotein - maize retrotransposon Cinfu1-1 gi 4206306 gb AAD11615.1 (AF049110) prpol [Zea mays]		

Seq. No.	50909	Seq. ID	OJ000309_11.0424.C31
Gene No.	107933	Strand	+
Start	23	End	2389
Name	OJ000309_11.0424.C31.o1.tm	Method	TBLASTX:Maize
Start	1151	End	1483
GI	none	Score	281
Exons	1151..1483, 1219..1275, 1306..1482		

Seq. No.	50910	Seq. ID	OJ000309_11.0424.C32
Gene No.	107934	Strand	-
Start	846	End	1199
Name	OJ000309_11.0424.C32.o1.gs	Method	GENSCAN
Start	846	End	1199
GI	none	Score	.41
Exons	846..925, 1085..1199		

Seq. No.	50911	Seq. ID	OJ000309_11.0424.C33
Gene No.	107935	Strand	-
Start	261	End	1279
Name	OJ000309_11.0424.C33.o1.gs	Method	GENSCAN
Start	261	End	1221
GI	none	Score	.7
Exons	261..471, 746..1221		

Seq. No.	50911	Seq. ID	OJ000309_11.0424.C33
Gene No.	107935	Strand	-
Start	261	End	1279
Name	OJ000309_11.0424.C33.o1.np	Method	AAT/NAP
Start	270	End	1279
GI	6691193	Score	751

Exons 270..1279
 GI Descrip. (AC007534) F7F22.17 [Arabidopsis thaliana]

Seq. No.	50911	Seq. ID	OJ000309_11.0424.C33
Gene No.	107935	Strand	-
Start	261	End	1279
Name	OJ000309_11.0424.C33.o2.ts	Method	TBLASTX:Soybean
Start	321	End	720
GI	none	Score	37
Exons	321..377, 363..452, 412..453, 462..716, 463..720		

Seq. No.	50911	Seq. ID	OJ000309_11.0424.C33
Gene No.	107935	Strand	-
Start	261	End	1279
Name	OJ000309_11.0424.C33.o2.tw	Method	TBLASTX:Wheat
Start	459	End	701
GI	none	Score	94
Exons	459..701, 460..699		

Seq. No.	50911	Seq. ID	OJ000309_11.0424.C33
Gene No.	107935	Strand	-
Start	261	End	1279
Name	OJ000309_11.0424.C33.o1.tw	Method	TBLASTX:Wheat
Start	707	End	1116
GI	none	Score	207
Exons	707..1111, 715..1116, 907..1113		

Seq. No.	50911	Seq. ID	OJ000309_11.0424.C33
Gene No.	107935	Strand	-
Start	261	End	1279
Name	OJ000309_11.0424.C33.o1.ts	Method	TBLASTX:Soybean
Start	763	End	1117
GI	none	Score	174
Exons	763..1077, 764..1078, 1075..1116, 1076..1117		

Seq. No.	50912	Seq. ID	OJ000309_11.0424.C34
Gene No.	107936	Strand	+
Start	52	End	332
Name	OJ000309_11.0424.C34.o1.gs	Method	GENSCAN
Start	52	End	332
GI	none	Score	1
Exons	52..332		

Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107937	Strand	+
Start	1	End	1857
Name	OJ000309_11.0424.C35.o1.np	Method	AAT/NAP
Start	1	End	697
GI	6983860	Score	1146
Exons	1..697		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107937	Strand	+
Start	1	End	1857
Name	OJ000309_11.0424.C35.o1.gs	Method	GENSCAN

Start	34	End	1503
GI	none	Score	.8
Exons	34..258, 442..657, 801..991, 1042..1188, 1203..1293, 1327..1503		

Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107937	Strand	+
Start	1	End	1857
Name	OJ000309_11.0424.C35.o2.np	Method	AAT/NAP
Start	990	End	1857
GI	5852178	Score	503
Exons	990..1295, 1327..1428, 1763..1857		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107938	Strand	-
Start	1	End	5045
Name	OJ000309_11.0424.C35.o3.np	Method	AAT/NAP
Start	1	End	5045
GI	5042454	Score	200
Exons	1..23, 4497..4592, 4889..5045		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107938	Strand	-
Start	1	End	5045
Name	OJ000309_11.0424.C35.o2.tw	Method	TBLASTX:Wheat
Start	3	End	222
GI	none	Score	336
Exons	3..218, 4..222		

Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107938	Strand	-
Start	1	End	5045
Name	OJ000309_11.0424.C35.o1.ts	Method	TBLASTX:Soybean
Start	10	End	270
GI	none	Score	289
Exons	10..270, 21..269		

Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107938	Strand	-
Start	1	End	5045
Name	OJ000309_11.0424.C35.o2.tm	Method	TBLASTX:Maize
Start	13	End	183
GI	none	Score	233
Exons	13..183, 21..179		

Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107938	Strand	-
Start	1	End	5045
Name	OJ000309_11.0424.C35.o1.tm	Method	TBLASTX:Maize
Start	187	End	504
GI	none	Score	421
Exons	187..504, 198..500		

Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107938	Strand	-
Start	1	End	5045

Name	OJ000309_11.0424.C35.o1.tw	Method	TBLASTX:Wheat
Start	229	End	690
GI	none	Score	519
Exons	229..690, 309..668		
Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107938	Strand	-
Start	1	End	5045
Name	OJ000309_11.0424.C35.o3.tm	Method	TBLASTX:Maize
Start	510	End	690
GI	none	Score	219
Exons	510..665, 511..690		
Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107938	Strand	-
Start	1	End	5045
Name	OJ000309_11.0424.C35.o2.gs	Method	GENSCAN
Start	1724	End	3836
GI	none	Score	.57
Exons	1724..1792, 2284..2399, 2651..2766, 3724..3836		
Seq. No.	50913	Seq. ID	OJ000309_11.0424.C35
Gene No.	107938	Strand	-
Start	1	End	5045
Name	OJ000309_11.0424.C35.o3.gs	Method	GENSCAN
Start	4094	End	5022
GI	none	Score	.77
Exons	4094..4221, 4895..4942, 4998..5022		
Seq. No.	50914	Seq. ID	OJ000309_11.0424.C36
Gene No.	107939	Strand	-
Start	244	End	451
Name	OJ000309_11.0424.C36.o1.np	Method	AAT/NAP
Start	244	End	451
GI	4680186	Score	99
Exons	244..451		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	50915	Seq. ID	OJ000309_11.0424.C37
Gene No.	107940	Strand	+
Start	3715	End	5339
Name	OJ000309_11.0424.C37.o2.np	Method	AAT/NAP
Start	3715	End	5339
GI	5852180	Score	675
Exons	3715..3767, 4759..4875, 4927..5339		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		
Seq. No.	50915	Seq. ID	OJ000309_11.0424.C37
Gene No.	107941	Strand	-
Start	1	End	57
Name	OJ000309_11.0424.C37.o1.gp	Method	AAT/GAP
Start	1	End	57
GI	3761181	Score	114
Exons	1..57		
GI Descrip.	4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	50915	Seq. ID	OJ000309_11.0424.C37
Gene No.	107942	Strand	-
Start	2242	End	6980
Name	OJ000309_11.0424.C37.o1.np	Method	AAT/NAP
Start	2242	End	6662
GI	7106512	Score	935
Exons	2242..2615, 2670..2927, 6635..6662		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50915	Seq. ID	OJ000309_11.0424.C37
Gene No.	107942	Strand	-
Start	2242	End	6980
Name	OJ000309_11.0424.C37.o3.gp	Method	AAT/GAP
Start	3617	End	4000
GI	uC-osflcyp033a04b1	Score	665
Exons	3617..4000		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	50915	Seq. ID	OJ000309_11.0424.C37
Gene No.	107942	Strand	-
Start	2242	End	6980
Name	OJ000309_11.0424.C37.o3.gs	Method	GENSCAN
Start	6080	End	6874
GI	none	Score	.87
Exons	6080..6874		

Seq. No.	50915	Seq. ID	OJ000309_11.0424.C37
Gene No.	107942	Strand	-
Start	2242	End	6980
Name	OJ000309_11.0424.C37.o3.np	Method	AAT/NAP
Start	6083	End	6980
GI	6983860	Score	1332
Exons	6083..6980		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	50915	Seq. ID	OJ000309_11.0424.C37
Gene No.	107942	Strand	-
Start	2242	End	6980
Name	OJ000309_11.0424.C37.o2.tw	Method	TBLASTX:Wheat
Start	6128	End	6461
GI	none	Score	120
Exons	6128..6460, 6149..6457, 6192..6461		

Seq. No.	50915	Seq. ID	OJ000309_11.0424.C37
Gene No.	107942	Strand	-
Start	2242	End	6980
Name	OJ000309_11.0424.C37.o1.tm	Method	TBLASTX:Maize
Start	6308	End	6907
GI	none	Score	209
Exons	6308..6748, 6324..6749, 6746..6907, 6753..6905		

Seq. No.	50915	Seq. ID	OJ000309_11.0424.C37
Gene No.	107942	Strand	-
Start	2242	End	6980

Name	OJ000309_11.0424.C37.o1.tw	Method	TBLASTX:Wheat
Start	6461	End	6977
GI	none	Score	68
Exons	6461..6976, 6464..6586, 6573..6977		

Seq. No.	50916	Seq. ID	OJ000309_11.0424.C38
Gene No.	107943	Strand	+
Start	1389	End	1572
Name	OJ000309_11.0424.C38.o1.gp	Method	AAT/GAP
Start	1389	End	1572
GI	uC-osflcyp053f07a1	Score	243
Exons	1389..1572		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-38 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	50916	Seq. ID	OJ000309_11.0424.C38
Gene No.	107944	Strand	-
Start	1	End	2726
Name	OJ000309_11.0424.C38.o1.np	Method	AAT/NAP
Start	1	End	2580
GI	7106512	Score	1788
Exons	1..1368, 1442..2447, 2521..2580		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50916	Seq. ID	OJ000309_11.0424.C38
Gene No.	107944	Strand	-
Start	1	End	2726
Name	OJ000309_11.0424.C38.o1.gs	Method	GENSCAN
Start	63	End	2110
GI	none	Score	.9
Exons	63..830, 1607..2110		

Seq. No.	50916	Seq. ID	OJ000309_11.0424.C38
Gene No.	107944	Strand	-
Start	1	End	2726
Name	OJ000309_11.0424.C38.o2.gp	Method	AAT/GAP
Start	2478	End	2726
GI	3761181	Score	433
Exons	2478..2726		
GI Descrip.	4521193/dbj AB013450.1 AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	50917	Seq. ID	OJ000309_11.0424.C39
Gene No.	107945	Strand	+
Start	97	End	2859
Name	OJ000309_11.0424.C39.o1.gs	Method	GENSCAN
Start	97	End	2859
GI	none	Score	.53
Exons	97..236, 2283..2412, 2455..2859		

Seq. No.	50917	Seq. ID	OJ000309_11.0424.C39
Gene No.	107945	Strand	+
Start	97	End	2859
Name	OJ000309_11.0424.C39.o1.gp	Method	AAT/GAP
Start	1014	End	1399
GI	uC-osflcyp033a04b1	Score	653

Exons 1014..1399
 GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No. 50917 Seq. ID OJ000309_11.0424.C39
 Gene No. 107946 Strand -
 Start 1 End 1301
 Name OJ000309_11.0424.C39.o1.np Method AAT/NAP
 Start 1 End 1301
 GI 5852180 Score 286
 Exons 1..89, 140..258, 1248..1301
 GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No. 50918 Seq. ID OJ000309_11.0424.C40
 Gene No. 107947 Strand +
 Start 84 End 2194
 Name OJ000309_11.0424.C40.o1.gs Method GENSCAN
 Start 84 End 2194
 GI none Score .62
 Exons 84..180, 1517..1678, 2172..2194

Seq. No. 50918 Seq. ID OJ000309_11.0424.C40
 Gene No. 107948 Strand +
 Start 6835 End 11724
 Name OJ000309_11.0424.C40.o3.gs Method GENSCAN
 Start 6835 End 11254
 GI none Score .45
 Exons 6835..7395, 8255..11254

Seq. No. 50918 Seq. ID OJ000309_11.0424.C40
 Gene No. 107948 Strand +
 Start 6835 End 11724
 Name OJ000309_11.0424.C40.o2.np Method AAT/NAP
 Start 7229 End 11724
 GI 4680179 Score 3158
 Exons 7229..7286, 8298..9319, 9353..11159, 11691..11724
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 50918 Seq. ID OJ000309_11.0424.C40
 Gene No. 107949 Strand -
 Start 1 End 4170
 Name OJ000309_11.0424.C40.o1.np Method AAT/NAP
 Start 1 End 4170
 GI 6983860 Score 633
 Exons 1..60, 2957..3200, 3399..4170
 GI Descrip. (AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]

Seq. No. 50918 Seq. ID OJ000309_11.0424.C40
 Gene No. 107950 Strand -
 Start 5461 End 9061
 Name OJ000309_11.0424.C40.o4.tw Method TBLASTX:Wheat
 Start 3383 End 9061
 GI none Score 100
 Exons 3383..3739, 3449..3727, 8710..8904, 8711..9061

Seq. No. 50918 Seq. ID OJ000309_11.0424.C40

Gene No.	107950	Strand	-
Start	5461	End	9061
Name	OJ000309_11.0424.C40.o4.tm	Method	TBLASTX:Maize
Start	3440	End	9016
GI	none	Score	75
Exons	3440..3739, 3636..3725, 8711..9016, 8725..8889		
Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107950	Strand	-
Start	5461	End	9061
Name	OJ000309_11.0424.C40.o6.tw	Method	TBLASTX:Wheat
Start	3777	End	8676
GI	none	Score	102
Exons	3777..3965, 3779..3976, 8334..8366, 8477..8674, 8479..8676		
Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107950	Strand	-
Start	5461	End	9061
Name	OJ000309_11.0424.C40.o1.gp	Method	AAT/GAP
Start	5461	End	5844
GI	uC-osflcyp033a04b1	Score	661
Exons	5461..5844		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107951	Strand	-
Start	9344	End	9802
Name	OJ000309_11.0424.C40.o5.tm	Method	TBLASTX:Maize
Start	9344	End	9697
GI	none	Score	189
Exons	9344..9697		
Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107951	Strand	-
Start	9344	End	9802
Name	OJ000309_11.0424.C40.o5.tw	Method	TBLASTX:Wheat
Start	9380	End	9802
GI	none	Score	163
Exons	9380..9589, 9436..9588, 9634..9747, 9635..9802		
Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107952	Strand	-
Start	9913	End	10786
Name	OJ000309_11.0424.C40.o2.tw	Method	TBLASTX:Wheat
Start	9913	End	10399
GI	none	Score	549
Exons	9913..10356, 9917..10399		
Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107952	Strand	-
Start	9913	End	10786
Name	OJ000309_11.0424.C40.o3.tm	Method	TBLASTX:Maize
Start	9928	End	10218
GI	none	Score	327
Exons	9928..10218, 9929..10216		

Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107952	Strand	
Start	9913	End	10786
Name	OJ000309_11.0424.C40.o3.ts	Method	TBLASTX:Soybean
Start	9953	End	10267
GI	none	Score	183
Exons	9953..10267		

Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107952	Strand	
Start	9913	End	10786
Name	OJ000309_11.0424.C40.o2.tm	Method	TBLASTX:Maize
Start	10286	End	10786
GI	none	Score	167
Exons	10286..10465, 10294..10440, 10472..10786, 10537..10665, 10693..10743		

Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107952	Strand	
Start	9913	End	10786
Name	OJ000309_11.0424.C40.o1.ts	Method	TBLASTX:Soybean
Start	10340	End	10735
GI	none	Score	57
Exons	10340..10372, 10342..10371, 10376..10735, 10378..10416, 10444..10734		

Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107952	Strand	
Start	9913	End	10786
Name	OJ000309_11.0424.C40.o3.tw	Method	TBLASTX:Wheat
Start	10448	End	10750
GI	none	Score	381
Exons	10448..10750, 10449..10529, 10450..10734, 10451..10744		

Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107953	Strand	
Start	10751	End	11158
Name	OJ000309_11.0424.C40.o1.tw	Method	TBLASTX:Wheat
Start	10751	End	11158
GI	none	Score	575
Exons	10751..11158, 10783..11157		

Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107953	Strand	
Start	10751	End	11158
Name	OJ000309_11.0424.C40.o2.ts	Method	TBLASTX:Soybean
Start	10757	End	11002
GI	none	Score	207
Exons	10757..11002, 10774..11001		

Seq. No.	50918	Seq. ID	OJ000309_11.0424.C40
Gene No.	107953	Strand	
Start	10751	End	11158
Name	OJ000309_11.0424.C40.o1.tm	Method	TBLASTX:Maize
Start	10822	End	11158
GI	none	Score	457
Exons	10822..11157, 10823..11158		

Seq. No.	50919	Seq. ID	OJ000309_11.0424.C41
Gene No.	107954	Strand	+
Start	96	End	5772
Name	OJ000309_11.0424.C41.o1.np	Method	AAT/NAP
Start	96	End	2007
GI	6907087	Score	1065
Exons	96..479, 689..1354, 1906..2007		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50919	Seq. ID	OJ000309_11.0424.C41
Gene No.	107954	Strand	+
Start	96	End	5772
Name	OJ000309_11.0424.C41.o1.gs	Method	GENSCAN
Start	578	End	5772
GI	none	Score	.61
Exons	578..1354, 3289..3317, 4556..5094, 5225..5395, 5653..5772		

Seq. No.	50919	Seq. ID	OJ000309_11.0424.C41
Gene No.	107954	Strand	+
Start	96	End	5772
Name	OJ000309_11.0424.C41.o1.gp	Method	AAT/GAP
Start	2463	End	2845
GI	uC-osflcyp033a04b1	Score	692
Exons	2463..2845		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	50919	Seq. ID	OJ000309_11.0424.C41
Gene No.	107955	Strand	+
Start	6172	End	6545
Name	OJ000309_11.0424.C41.o3.gp	Method	AAT/GAP
Start	6172	End	6545
GI	uC-osflcyp033a04b1	Score	533
Exons	6172..6545		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	50919	Seq. ID	OJ000309_11.0424.C41
Gene No.	107956	Strand	-
Start	1	End	10935
Name	OJ000309_11.0424.C41.o3.np	Method	AAT/NAP
Start	1	End	10935
GI	5852180	Score	625
Exons	1..17, 4077..4135, 4840..5248, 5299..5417, 6406..6453, 10895..10935		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	50919	Seq. ID	OJ000309_11.0424.C41
Gene No.	107956	Strand	-
Start	1	End	10935
Name	OJ000309_11.0424.C41.o2.np	Method	AAT/NAP
Start	2393	End	2595
GI	4680186	Score	237
Exons	2393..2595		

GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No.	50920	Seq. ID	OJ000309_11.0424.C42
Gene No.	107957	Strand	+
Start	1	End	1584
Name	OJ000309_11.0424.C42.o1.np	Method	AAT/NAP
Start	1	End	1584
GI	1399945	Score	66
Exons	1..54, 316..397, 1563..1584		
GI Descrip.	(U60194) RNA helicase GLH-2 [Caenorhabditis elegans] gi 1405387		
	(U60449) GLH-2 [Caenorhabditis elegans]		

Seq. No.	50920	Seq. ID	OJ000309_11.0424.C42
Gene No.	107957	Strand	+
Start	1	End	1584
Name	OJ000309_11.0424.C42.o1.gs	Method	GENSCAN
Start	16	End	735
GI	none	Score	.99
Exons	16..471, 580..735		

Seq. No.	50921	Seq. ID	OJ000329_04.0419.C1
Gene No.	107958	Strand	+
Start	1	End	463
Name	OJ000329_04.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	457
GI	4680204	Score	90
Exons	1..295, 400..457		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	50921	Seq. ID	OJ000329_04.0419.C1
Gene No.	107958	Strand	+
Start	1	End	463
Name	OJ000329_04.0419.C1.o1.gs	Method	GENSCAN
Start	161	End	463
GI	none	Score	.79
Exons	161..295, 400..463		

Seq. No.	50922	Seq. ID	OJ000329_04.0419.C4
Gene No.	107959	Strand	+
Start	1	End	1281
Name	OJ000329_04.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	1281
GI	6721517	Score	1680
Exons	1..531, 578..1281		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		

Seq. No.	50922	Seq. ID	OJ000329_04.0419.C4
Gene No.	107959	Strand	+
Start	1	End	1281
Name	OJ000329_04.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	2	End	277
GI	none	Score	191
Exons	2..229, 4..141, 215..277		

Seq. No.	50922	Seq. ID	OJ000329_04.0419.C4
Gene No.	107959	Strand	+
Start	1	End	1281

Name OJ000329_04.0419.C4.o1.gs
 Start 308
 GI none
 Exons 308..535, 701..964, 992..1237

Method GENSCAN
 End 1237
 Score .74

Seq. No. 50922
 Gene No. 107959
 Start 1
 Name OJ000329_04.0419.C4.o1.tw
 Start 755
 GI none
 Exons 755..973, 862..963, 1064..1201, 1072..1194

Seq. ID OJ000329_04.0419.C4
 Strand +
 End 1281
 Method TBLASTX:Wheat
 End 1201
 Score 137

Seq. No. 50923
 Gene No. 107960
 Start 500
 Name OJ000329_04.0419.C5.o1.gs
 Start 500
 GI none
 Exons 500..613, 827..835

Seq. ID OJ000329_04.0419.C5
 Strand +
 End 835
 Method GENSCAN
 End 835
 Score .72

Seq. No. 50923
 Gene No. 107961
 Start 518
 Name OJ000329_04.0419.C5.o1.np
 Start 518
 GI 5852179
 Exons 518..647, 1377..1576, 1809..2187
 GI Descrip. (AL117265) zhb0009.1 [Oryza sativa]

Seq. ID OJ000329_04.0419.C5
 Strand -
 End 2187
 Method AAT/NAP
 End 2187
 Score 111

Seq. No. 50923
 Gene No. 107961
 Start 518
 Name OJ000329_04.0419.C5.o2.gs
 Start 1866
 GI none
 Exons 1866..2111

Seq. ID OJ000329_04.0419.C5
 Strand -
 End 2187
 Method GENSCAN
 End 2111
 Score .46

Seq. No. 50924
 Gene No. 107962
 Start 1
 Name OJ000329_04.0419.C6.o2.np
 Start 1
 GI 5852175
 Exons 1..124, 665..727, 1284..1340, 1911..2005, 2626..2658
 GI Descrip. (AL117265) zhb0005.1 [Oryza sativa]

Seq. ID OJ000329_04.0419.C6
 Strand +
 End 2793
 Method AAT/NAP
 End 2658
 Score 128

Seq. No. 50924
 Gene No. 107962
 Start 1
 Name OJ000329_04.0419.C6.o1.gp
 Start 1289
 GI 101153_1.R1084
 Exons 1289..1539
 GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. ID OJ000329_04.0419.C6
 Strand +
 End 2793
 Method AAT/GAP
 End 1539
 Score 412

Seq. No.	50924	Seq. ID	OJ000329_04.0419.C6
Gene No.	107962	Strand	+
Start	1	End	2793
Name	OJ000329_04.0419.C6.o2.gp	Method	AAT/GAP
Start	2519	End	2793
GI	61605_1.R1084	Score	460
Exons	2519..2793		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	50924	Seq. ID	OJ000329_04.0419.C6
Gene No.	107963	Strand	-
Start	1	End	1897
Name	OJ000329_04.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1897
GI	5852179	Score	389
Exons	1..157, 427..601, 676..888, 1877..1897		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	50925	Seq. ID	OJ000329_04.0419.C7
Gene No.	107964	Strand	+
Start	499	End	813
Name	OJ000329_04.0419.C7.o1.gs	Method	GENSCAN
Start	499	End	813
GI	none	Score	.84
Exons	499..813		

Seq. No.	50925	Seq. ID	OJ000329_04.0419.C7
Gene No.	107965	Strand	+
Start	1265	End	1629
Name	OJ000329_04.0419.C7.o2.gs	Method	GENSCAN
Start	1265	End	1629
GI	none	Score	.9
Exons	1265..1387, 1483..1629		

Seq. No.	50925	Seq. ID	OJ000329_04.0419.C7
Gene No.	107966	Strand	-
Start	4172	End	5197
Name	OJ000329_04.0419.C7.o3.gs	Method	GENSCAN
Start	4172	End	5197
GI	none	Score	.67
Exons	4172..4441, 5150..5197		

Seq. No.	50926	Seq. ID	OJ000329_04.0419.C8
Gene No.	107967	Strand	+
Start	1018	End	1164
Name	OJ000329_04.0419.C8.o1.gp	Method	AAT/GAP
Start	1018	End	1164
GI	21474_1.R1084	Score	217
Exons	1018..1164		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	50926	Seq. ID	OJ000329_04.0419.C8
Gene No.	107968	Strand	-
Start	1389	End	1922
Name	OJ000329_04.0419.C8.o1.gs	Method	GENSCAN

Start	1389	End	1922
GI	none	Score	.75
Exons	1389..1577, 1657..1755, 1850..1922		

Seq. No.	50927	Seq. ID	OJ000329_04.0419.C9
Gene No.	107969	Strand	-
Start	1	End	1564
Name	OJ000329_04.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1564
GI	6983860	Score	2087
Exons	1..213, 469..1564		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	50927	Seq. ID	OJ000329_04.0419.C9
Gene No.	107969	Strand	-
Start	1	End	1564
Name	OJ000329_04.0419.C9.o1.gs	Method	GENSCAN
Start	16	End	1564
GI	none	Score	.73
Exons	16..919, 1016..1193, 1218..1564		

Seq. No.	50927	Seq. ID	OJ000329_04.0419.C9
Gene No.	107969	Strand	-
Start	1	End	1564
Name	OJ000329_04.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	116	End	469
GI	none	Score	246
Exons	116..469		

Seq. No.	50927	Seq. ID	OJ000329_04.0419.C9
Gene No.	107969	Strand	-
Start	1	End	1564
Name	OJ000329_04.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	803	End	1153
GI	none	Score	305
Exons	803..1153		

Seq. No.	50927	Seq. ID	OJ000329_04.0419.C9
Gene No.	107969	Strand	-
Start	1	End	1564
Name	OJ000329_04.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	815	End	1153
GI	none	Score	91
Exons	815..1153, 917..1153		

Seq. No.	50927	Seq. ID	OJ000329_04.0419.C9
Gene No.	107969	Strand	-
Start	1	End	1564
Name	OJ000329_04.0419.C9.o3.tw	Method	TBLASTX:Wheat
Start	1205	End	1530
GI	none	Score	54
Exons	1205..1378, 1205..1402, 1206..1403, 1510..1530		

Seq. No.	50928	Seq. ID	OJ000329_04.0419.C12
Gene No.	107970	Strand	+
Start	185	End	308

Name	OJ000329_04.0419.C12.o1.gs	Method	GENSCAN
Start	185	End	308
GI	none	Score	.6
Exons	185..308		
Seq. No.	50928	Seq. ID	OJ000329_04.0419.C12
Gene No.	107971	Strand	+
Start	3423	End	7178
Name	OJ000329_04.0419.C12.o3.gs	Method	GENSCAN
Start	3423	End	7178
GI	none	Score	.75
Exons	3423..3620, 4032..4133, 5865..6024, 6237..6286, 6570..6762, 6856..6988, 7031..7178		
Seq. No.	50928	Seq. ID	OJ000329_04.0419.C12
Gene No.	107972	Strand	+
Start	9620	End	9783
Name	OJ000329_04.0419.C12.o2.np	Method	AAT/NAP
Start	9620	End	9783
GI	5042447	Score	106
Exons	9620..9783		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	50928	Seq. ID	OJ000329_04.0419.C12
Gene No.	107973	Strand	-
Start	1492	End	1850
Name	OJ000329_04.0419.C12.o1.gp	Method	AAT/GAP
Start	1155	End	1850
GI	24245_1.R1084	Score	1301
Exons	1155..1850		
GI Descrip.	'3402817/emb CAA07704 1.0e-16 (AJ007829) lacZ'' [Cloning vector pGreen]'		
Seq. No.	50928	Seq. ID	OJ000329_04.0419.C12
Gene No.	107973	Strand	-
Start	1492	End	1850
Name	OJ000329_04.0419.C12.o2.gs	Method	GENSCAN
Start	1492	End	1812
GI	none	Score	1
Exons	1492..1812		
Seq. No.	50928	Seq. ID	OJ000329_04.0419.C12
Gene No.	107974	Strand	-
Start	6097	End	8638
Name	OJ000329_04.0419.C12.o1.np	Method	AAT/NAP
Start	6097	End	8638
GI	5295955	Score	607
Exons	6097..6715, 6754..7118, 7162..7241, 7913..8027, 8570..8638		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		
Seq. No.	50928	Seq. ID	OJ000329_04.0419.C12
Gene No.	107974	Strand	-
Start	6097	End	8638
Name	OJ000329_04.0419.C12.o4.gs	Method	GENSCAN
Start	7408	End	8638
GI	none	Score	.71

Exons 7408..7496, 7904..8027, 8502..8638

Seq. No.	50929	Seq. ID	OJ000329_04.0419.C13
Gene No.	107975	Strand	+
Start	76	End	258
Name	OJ000329_04.0419.C13.o1.gs	Method	GENSCAN
Start	76	End	258
GI	none	Score	.98
Exons	76..258		

Seq. No.	50929	Seq. ID	OJ000329_04.0419.C13
Gene No.	107976	Strand	-
Start	1	End	1787
Name	OJ000329_04.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1787
GI	5295955	Score	268
Exons	1..142, 242..322, 1004..1118, 1695..1787		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	50929	Seq. ID	OJ000329_04.0419.C13
Gene No.	107976	Strand	-
Start	1	End	1787
Name	OJ000329_04.0419.C13.o2.gs	Method	GENSCAN
Start	499	End	1763
GI	none	Score	.79
Exons	499..587, 995..1118, 1627..1763		

Seq. No.	50930	Seq. ID	OJ000329_04.0419.C17
Gene No.	107977	Strand	-
Start	1	End	786
Name	OJ000329_04.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	786
GI	4680204	Score	270
Exons	1..53, 149..786		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	50930	Seq. ID	OJ000329_04.0419.C17
Gene No.	107977	Strand	-
Start	1	End	786
Name	OJ000329_04.0419.C17.o1.gs	Method	GENSCAN
Start	149	End	748
GI	none	Score	.56
Exons	149..748		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107978	Strand	+
Start	1721	End	3857
Name	OJ000329_04.0419.C18.o2.np	Method	AAT/NAP
Start	1721	End	3857
GI	6063554	Score	167
Exons	1721..1837, 2297..2507, 3652..3857		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
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Gene No.	107978	Strand	+
Start	1721	End	3857
Name	OJ000329_04.0419.C18.o1.np	Method	AAT/NAP
Start	2221	End	3131
GI	5852178	Score	535
Exons	2221..2524, 2556..2663, 3037..3131		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107978	Strand	+
Start	1721	End	3857
Name	OJ000329_04.0419.C18.o1.gp	Method	AAT/GAP
Start	3266	End	3697
GI	2428185	Score	705
Exons	3266..3697		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081
Name	OJ000329_04.0419.C18.o1.gs	Method	GENSCAN
Start	114	End	9081
GI	none	Score	.66
Exons	114..265, 385..627, 2291..2417, 2453..2666, 3832..3985, 4556..4592, 4969..5312, 6190..6474, 6565..6764, 6873..7182, 7511..8092, 8189..8323, 8615..8691, 8734..9081		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081
Name	OJ000329_04.0419.C18.o2.gp	Method	AAT/GAP
Start	5544	End	9068
GI	342_1.R1084	Score	5545
Exons	5544..9068		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081
Name	OJ000329_04.0419.C18.o3.np	Method	AAT/NAP
Start	6160	End	9067
GI	4680203	Score	2787
Exons	6160..7137, 7370..7600, 7754..9067		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081
Name	OJ000329_04.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	6214	End	7492
GI	none	Score	53
Exons	6214..6306, 6215..6280, 6295..6375, 6326..6376, 6380..6499, 6382..6498, 6389..6502, 6400..6501, 6476..6571, 6508..6567, 6574..6615, 6574..6618, 6579..6620, 6613..7197, 6628..6945, 6902..7198, 7042..7203, 7092..7205, 7205..7486, 7212..7487,		

7212..7487, 7307..7492

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081
Name	OJ000329_04.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	6796	End	7205
GI	none	Score	89
Exons	6796..6945, 6796..7197, 6821..7198, 6902..7198, 7042..7203, 7092..7205		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081
Name	OJ000329_04.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	7141	End	7573
GI	none	Score	193
Exons	7141..7206, 7208..7573		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081
Name	OJ000329_04.0419.C18.o3.tw	Method	TBLASTX:Wheat
Start	7493	End	7898
GI	none	Score	78
Exons	7493..7588, 7494..7574, 7499..7579, 7607..7849, 7647..7829, 7835..7897, 7848..7898		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081
Name	OJ000329_04.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	8003	End	8459
GI	none	Score	89
Exons	8003..8197, 8207..8449, 8208..8459		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081
Name	OJ000329_04.0419.C18.o2.tw	Method	TBLASTX:Wheat
Start	8037	End	8506
GI	none	Score	163
Exons	8037..8243, 8037..8246, 8041..8244, 8042..8266, 8244..8336, 8246..8344, 8247..8339, 8348..8452, 8352..8453, 8450..8506, 8454..8498		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081
Name	OJ000329_04.0419.C18.o2.tc	Method	TBLASTX:Cress
Start	8294	End	8636
GI	none	Score	65
Exons	8294..8635, 8298..8441, 8490..8636		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081

Name	OJ000329_04.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	8367	End	8803
GI	none	Score	88
Exons	8367..8639, 8375..8644, 8729..8803		

Seq. No.	50931	Seq. ID	OJ000329_04.0419.C18
Gene No.	107979	Strand	-
Start	114	End	9081
Name	OJ000329_04.0419.C18.o4.tw	Method	TBLASTX:Wheat
Start	8735	End	9073
GI	none	Score	187
Exons	8735..8986, 8736..8978, 8749..8985, 8767..9060, 8969..9073, 8983..9051		

Seq. No.	50932	Seq. ID	OJ000329_04.0419.C19
Gene No.	107980	Strand	+
Start	144	End	1628
Name	OJ000329_04.0419.C19.o1.gp	Method	AAT/GAP
Start	144	End	1628
GI	61605_1.R1084	Score	599
Exons	144..224, 1356..1628		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:tl7804'		

Seq. No.	50932	Seq. ID	OJ000329_04.0419.C19
Gene No.	107980	Strand	+
Start	144	End	1628
Name	OJ000329_04.0419.C19.o1.np	Method	AAT/NAP
Start	144	End	982
GI	6063554	Score	252
Exons	144..172, 809..982		
GI Descrip.	(AP000615) ESTs AU075609 (C63344), C71850 (E0464), C98611 (E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	50932	Seq. ID	OJ000329_04.0419.C19
Gene No.	107981	Strand	+
Start	2171	End	3193
Name	OJ000329_04.0419.C19.o2.np	Method	AAT/NAP
Start	2171	End	3193
GI	6983860	Score	978
Exons	2171..3193		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	50932	Seq. ID	OJ000329_04.0419.C19
Gene No.	107982	Strand	-
Start	2132	End	5895
Name	OJ000329_04.0419.C19.o3.np	Method	AAT/NAP
Start	2132	End	5895
GI	5852179	Score	344
Exons	2132..2180, 4385..4616, 4691..4892, 5875..5895		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	50932	Seq. ID	OJ000329_04.0419.C19
Gene No.	107982	Strand	-
Start	2132	End	5895

Name	OJ000329_04.0419.C19.o2.gp	Method	AAT/GAP
Start	2265	End	2752
GI	uC-osflcyp162a07a1	Score	666
Exons	2265..2492, 2592..2752		
GI Descrip.	'4680179/gb AAD27547.1 AF111709_1 2.0e-40 (AF111709) polyprotein [Oryza sativa subsp. indica]'		

Seq. No.	50932	Seq. ID	OJ000329_04.0419.C19
Gene No.	107982	Strand	-
Start	2132	End	5895
Name	OJ000329_04.0419.C19.o2.gs	Method	GENSCAN
Start	4371	End	4787
GI	none	Score	.56
Exons	4371..4787		

Seq. No.	50932	Seq. ID	OJ000329_04.0419.C19
Gene No.	107983	Strand	-
Start	6876	End	12294
Name	OJ000329_04.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	2333	End	2689
GI	none	Score	290
Exons	2333..2689, 2341..2511, 2548..2688		

Seq. No.	50932	Seq. ID	OJ000329_04.0419.C19
Gene No.	107983	Strand	-
Start	6876	End	12294
Name	OJ000329_04.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	2573	End	2860
GI	none	Score	209
Exons	2573..2833, 2596..2757, 2798..2860		

Seq. No.	50932	Seq. ID	OJ000329_04.0419.C19
Gene No.	107983	Strand	-
Start	6876	End	12294
Name	OJ000329_04.0419.C19.o4.np	Method	AAT/NAP
Start	6876	End	8549
GI	6907086	Score	1155
Exons	6876..7228, 7455..7722, 7780..8549		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	50932	Seq. ID	OJ000329_04.0419.C19
Gene No.	107983	Strand	-
Start	6876	End	12294
Name	OJ000329_04.0419.C19.o5.np	Method	AAT/NAP
Start	7730	End	12294
GI	4680186	Score	181
Exons	7730..7750, 9480..9660, 10133..10199, 12257..12294		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	50932	Seq. ID	OJ000329_04.0419.C19
Gene No.	107983	Strand	-
Start	6876	End	12294
Name	OJ000329_04.0419.C19.o4.gs	Method	GENSCAN
Start	11416	End	12184
GI	none	Score	.87
Exons	11416..11461, 11847..12008, 12073..12184		

Seq. No.	50933	Seq. ID	OJ000329_04.0419.C21
Gene No.	107984	Strand	+
Start	460	End	756
Name	OJ000329_04.0419.C21.o1.gs	Method	GENSCAN
Start	460	End	756
GI	none	Score	.88
Exons	460..571, 665..756		

Seq. No.	50933	Seq. ID	OJ000329_04.0419.C21
Gene No.	107985	Strand	-
Start	325	End	775
Name	OJ000329_04.0419.C21.o1.np	Method	AAT/NAP
Start	325	End	775
GI	7363272	Score	298
Exons	325..453, 513..684, 714..775		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107986	Strand	+
Start	1	End	3889
Name	OJ000329_04.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	3889
GI	7488206	Score	266
Exons	1..318, 1459..1708, 1828..1937, 2033..2293, 3848..3889		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) T4L20.20 - Arabidopsis thaliana gi 3641836 emb CAA18823.1 (AL023094) putative serine/threonine protein kinase [Arabidopsis thaliana] gi 7270394 emb CAB80161.1 (AL161585) putative serine/threonine protein kinase [Arabidopsis thaliana]		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107986	Strand	+
Start	1	End	3889
Name	OJ000329_04.0419.C23.o1.gs	Method	GENSCAN
Start	999	End	3121
GI	none	Score	.8
Exons	999..1022, 1123..1248, 1358..1699, 1849..1937, 2033..2293, 2673..2939, 3044..3121		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107987	Strand	+
Start	6247	End	8931
Name	OJ000329_04.0419.C23.o3.np	Method	AAT/NAP
Start	6247	End	8931
GI	4336606	Score	1198
Exons	6247..6297, 6349..6496, 7179..7741, 8460..8690, 8791..8931		
GI Descrip.	(AF099110) sigma factor; Sig1 [Zea mays]		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107987	Strand	+
Start	6247	End	8931
Name	OJ000329_04.0419.C23.o3.gs	Method	GENSCAN
Start	7012	End	8931
GI	none	Score	.93
Exons	7012..7017, 7184..7741, 8460..8690, 8791..8931		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
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Gene No.	107987	Strand	+
Start	6247	End	8931
Name	OJ000329_04.0419.C23.o1.gp	Method	AAT/GAP
Start	8459	End	8719
GI	LIB3434-015-P1-K1-D10	Score	419
Exons	8459..8719		
GI Descrip.	'4336606/gb AAD17854 3.0e-45 (AF099110) sigma factor; Sig1 [Zea mays]'		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107988	Strand	-
Start	2331	End	6741
Name	OJ000329_04.0419.C23.o2.ts	Method	TBLASTX:Soybean
Start	1408	End	2254
GI	none	Score	159
Exons	1408..1707, 1827..1952, 2035..2241, 2036..2254		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107988	Strand	-
Start	2331	End	6741
Name	OJ000329_04.0419.C23.o3.tc	Method	TBLASTX:Cress
Start	1423	End	2885
GI	none	Score	94
Exons	1423..1536, 1561..1710, 1833..1952, 2027..2248, 2035..2283, 2332..2391, 2772..2885		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107988	Strand	-
Start	2331	End	6741
Name	OJ000329_04.0419.C23.o3.tm	Method	TBLASTX:Maize
Start	1630	End	2298
GI	none	Score	50
Exons	1630..1695, 1815..1952, 2020..2298, 2027..2296		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107988	Strand	-
Start	2331	End	6741
Name	OJ000329_04.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	1821	End	4780
GI	none	Score	86
Exons	1821..1952, 2039..2260, 2119..2244, 4667..4780		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107988	Strand	-
Start	2331	End	6741
Name	OJ000329_04.0419.C23.o2.np	Method	AAT/NAP
Start	2331	End	5140
GI	7489544	Score	577
Exons	2331..2353, 4452..4579, 4679..5140		
GI Descrip.	probable mitogen activated protein kinase - rice gi 3450842 gb AAC32599.1 (AF080436) mitogen activated protein kinase kinase [Oryza sativa]		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107988	Strand	-
Start	2331	End	6741
Name	OJ000329_04.0419.C23.o1.tc	Method	TBLASTX:Cress

Start	4505	End	5068
GI	none	Score	106
Exons	4505..4576, 4679..4840, 4680..4838, 4889..5068, 4908..5063		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107988	Strand	-
Start	2331	End	6741
Name	OJ000329_04.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	4505	End	5116
GI	none	Score	45
Exons	4505..4579, 4521..4580, 4685..4840, 4686..4838, 4889..5116, 4908..5063		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107988	Strand	-
Start	2331	End	6741
Name	OJ000329_04.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	4508	End	5140
GI	none	Score	63
Exons	4508..4579, 4521..4580, 4679..4840, 4680..4838, 4886..5140, 4908..5117		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107988	Strand	-
Start	2331	End	6741
Name	OJ000329_04.0419.C23.o2.gs	Method	GENSCAN
Start	4661	End	6741
GI	none	Score	.7
Exons	4661..5363, 5477..5681, 6068..6536, 6739..6741		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107989	Strand	-
Start	7193	End	7671
Name	OJ000329_04.0419.C23.o4.tm	Method	TBLASTX:Maize
Start	7193	End	7671
GI	none	Score	183
Exons	7193..7528, 7201..7671, 7452..7670, 7582..7671		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107990	Strand	-
Start	7672	End	8931
Name	OJ000329_04.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	7672	End	8919
GI	none	Score	94
Exons	7672..7743, 7673..7741, 8456..8686, 8460..8690, 8500..8691, 8773..8919, 8790..8909		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107990	Strand	-
Start	7672	End	8931
Name	OJ000329_04.0419.C23.o2.tc	Method	TBLASTX:Cress
Start	8457	End	8931
GI	none	Score	266
Exons	8457..8693, 8460..8690, 8785..8931, 8790..8930		

Seq. No.	50934	Seq. ID	OJ000329_04.0419.C23
Gene No.	107990	Strand	-

Start	7672	End	8931
Name	OJ000329_04.0419.C23.o3.ts	Method	TBLASTX:Soybean
Start	8466	End	8931
GI	none	Score	116
Exons	8466..8690, 8618..8683, 8785..8931, 8793..8930		

Seq. No.	50935	Seq. ID	OJ000329_04.0419.C26
Gene No.	107991	Strand	+
Start	11931	End	13481
Name	OJ000329_04.0419.C26.o3.np	Method	AAT/NAP
Start	11931	End	13481
GI	6983860	Score	934
Exons	11931..13015, 13436..13481		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	50935	Seq. ID	OJ000329_04.0419.C26
Gene No.	107992	Strand	-
Start	5119	End	5661
Name	OJ000329_04.0419.C26.o1.np	Method	AAT/NAP
Start	5119	End	5661
GI	5852179	Score	544
Exons	5119..5353, 5428..5661		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	50935	Seq. ID	OJ000329_04.0419.C26
Gene No.	107993	Strand	-
Start	9383	End	13481
Name	OJ000329_04.0419.C26.o2.np	Method	AAT/NAP
Start	9383	End	13481
GI	5852180	Score	423
Exons	9383..9757, 10760..10847, 13455..13481		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	50935	Seq. ID	OJ000329_04.0419.C26
Gene No.	107993	Strand	-
Start	9383	End	13481
Name	OJ000329_04.0419.C26.o2.gp	Method	AAT/GAP
Start	12046	End	12533
GI	uC-osflcyp162a07a1	Score	494
Exons	12046..12273, 12373..12533		
GI Descrip.	'4680179/gb AAD27547.1 AF111709_1 2.0e-40 (AF111709) polyprotein [Oryza sativa subsp. indica]'		

Seq. No.	50935	Seq. ID	OJ000329_04.0419.C26
Gene No.	107993	Strand	-
Start	9383	End	13481
Name	OJ000329_04.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	12114	End	12470
GI	none	Score	288
Exons	12114..12470, 12116..12292, 12329..12469		

Seq. No.	50935	Seq. ID	OJ000329_04.0419.C26
Gene No.	107993	Strand	-
Start	9383	End	13481
Name	OJ000329_04.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	12351	End	12665

GI	none	Score	206
Exons	12351..12614, 12377..12538, 12579..12665		

Seq. No.	50936	Seq. ID	OJ000329_04.0419.C30
Gene No.	107994	Strand	+
Start	1	End	939
Name	OJ000329_04.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	939
GI	4680203	Score	442
Exons	1..939		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	50936	Seq. ID	OJ000329_04.0419.C30
Gene No.	107994	Strand	+
Start	1	End	939
Name	OJ000329_04.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	2	End	861
GI	none	Score	56
Exons	2..85, 185..349, 208..252, 373..513, 380..544, 524..586, 539..580, 587..628, 636..728, 637..741, 742..861		

Seq. No.	50936	Seq. ID	OJ000329_04.0419.C30
Gene No.	107994	Strand	+
Start	1	End	939
Name	OJ000329_04.0419.C30.o1.gs	Method	GENSCAN
Start	83	End	915
GI	none	Score	.89
Exons	83..592, 613..915		

Seq. No.	50937	Seq. ID	OJ000329_04.0419.C31
Gene No.	107995	Strand	+
Start	1371	End	3143
Name	OJ000329_04.0419.C31.o1.gs	Method	GENSCAN
Start	1371	End	2900
GI	none	Score	.43
Exons	1371..1476, 1562..1990, 2246..2900		

Seq. No.	50937	Seq. ID	OJ000329_04.0419.C31
Gene No.	107995	Strand	+
Start	1371	End	3143
Name	OJ000329_04.0419.C31.o1.np	Method	AAT/NAP
Start	1621	End	3143
GI	6907089	Score	1073
Exons	1621..2620, 2651..2900, 3002..3143		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	50938	Seq. ID	OJ000329_04.0419.C32
Gene No.	107996	Strand	+
Start	494	End	2628
Name	OJ000329_04.0419.C32.o1.gs	Method	GENSCAN
Start	494	End	2628
GI	none	Score	.48
Exons	494..601, 818..946, 1356..1448, 1790..1930, 2091..2447, 2524..2628		

Seq. No.	50938	Seq. ID	OJ000329_04.0419.C32
Gene No.	107997	Strand	-

Start	185	End	2655
Name	OJ000329_04.0419.C32.o1.np	Method	AAT/NAP
Start	185	End	2655
GI	7228457	Score	134
Exons	185..317, 2608..2655		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	50939	Seq. ID	OJ000329_04.0419.C35
Gene No.	107998	Strand	+
Start	1	End	299
Name	OJ000329_04.0419.C35.o1.np	Method	AAT/NAP
Start	1	End	299
GI	4680179	Score	429
Exons	1..299		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	50939	Seq. ID	OJ000329_04.0419.C35
Gene No.	107999	Strand	-
Start	80	End	1057
Name	OJ000329_04.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	9	End	239
GI	none	Score	222
Exons	9..239, 14..61, 95..217		

Seq. No.	50939	Seq. ID	OJ000329_04.0419.C35
Gene No.	107999	Strand	-
Start	80	End	1057
Name	OJ000329_04.0419.C35.o1.tw	Method	TBLASTX:Wheat
Start	9	End	254
GI	none	Score	240
Exons	9..254, 17..253		

Seq. No.	50939	Seq. ID	OJ000329_04.0419.C35
Gene No.	107999	Strand	-
Start	80	End	1057
Name	OJ000329_04.0419.C35.o1.gs	Method	GENSCAN
Start	80	End	837
GI	none	Score	.91
Exons	80..138, 258..346, 665..837		

Seq. No.	50939	Seq. ID	OJ000329_04.0419.C35
Gene No.	107999	Strand	-
Start	80	End	1057
Name	OJ000329_04.0419.C35.o2.np	Method	AAT/NAP
Start	577	End	1057
GI	5295955	Score	250
Exons	577..1057		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	1639

GI 4680179 Score 2533
 Exons 1..1639
 GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o4.tw	Method	TBLASTX:Wheat
Start	1	End	290
GI	none	Score	47
Exons	1..57, 2..58, 2..289, 3..290, 3..290		

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	3	End	276
GI	none	Score	325
Exons	3..275, 21..275, 25..276		

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o2.tm	Method	TBLASTX:Maize
Start	9	End	581
GI	none	Score	410
Exons	9..581, 113..280, 273..464		

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o2.tw	Method	TBLASTX:Wheat
Start	291	End	715
GI	none	Score	497
Exons	291..659, 323..634, 644..715, 658..708		

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o3.ts	Method	TBLASTX:Soybean
Start	300	End	542
GI	none	Score	177
Exons	300..542		

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	755	End	1281
GI	none	Score	171
Exons	755..988, 898..1008, 988..1281, 994..1275, 1026..1280		

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o3.tm	Method	TBLASTX:Maize
Start	932	End	1245

GI	none	Score	47
Exons	932..988, 997..1245, 999..1244		

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	967	End	1305
GI	none	Score	88
Exons	967..1161, 1162..1305, 1164..1304		

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o2.ts	Method	TBLASTX:Soybean
Start	1069	End	1329
GI	none	Score	298
Exons	1069..1329, 1074..1328		

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	1246	End	1563
GI	none	Score	436
Exons	1246..1563, 1257..1562		

Seq. No.	50940	Seq. ID	OJ000329_04.0419.C38
Gene No.	108000	Strand	+
Start	1	End	1639
Name	OJ000329_04.0419.C38.o3.tw	Method	TBLASTX:Wheat
Start	1287	End	1638
GI	none	Score	140
Exons	1287..1571, 1287..1637, 1288..1638		

Seq. No.	50941	Seq. ID	OJ000329_04.0419.C39
Gene No.	108001	Strand	-
Start	135	End	273
Name	OJ000329_04.0419.C39.o1.gs	Method	GENSCAN
Start	135	End	273
GI	none	Score	.83
Exons	135..273		

Seq. No.	50942	Seq. ID	OJ000329_04.0419.C42
Gene No.	108002	Strand	-
Start	1	End	321
Name	OJ000329_04.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	321
GI	5852179	Score	157
Exons	1..321		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	50942	Seq. ID	OJ000329_04.0419.C42
Gene No.	108002	Strand	-
Start	1	End	321
Name	OJ000329_04.0419.C42.o1.gs	Method	GENSCAN
Start	53	End	196

GI	none	Score	.81
Exons	53..196		
Seq. No.	50943	Seq. ID	OJ000329_04.0419.C43
Gene No.	108003	Strand	+
Start	1436	End	2326
Name	OJ000329_04.0419.C43.o1.gs	Method	GENSCAN
Start	1436	End	2326
GI	none	Score	.71
Exons	1436..1496, 1924..1959, 2010..2326		
Seq. No.	50944	Seq. ID	OJ000329_04.0419.C44
Gene No.	108004	Strand	+
Start	1	End	3475
Name	OJ000329_04.0419.C44.o3.np	Method	AAT/NAP
Start	1	End	3475
GI	5295955	Score	83
Exons	1..57, 207..302, 2639..2774, 3310..3475		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		
Seq. No.	50944	Seq. ID	OJ000329_04.0419.C44
Gene No.	108004	Strand	+
Start	1	End	3475
Name	OJ000329_04.0419.C44.o4.np	Method	AAT/NAP
Start	1	End	3467
GI	4680183	Score	103
Exons	1..43, 3378..3467		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	50944	Seq. ID	OJ000329_04.0419.C44
Gene No.	108004	Strand	+
Start	1	End	3475
Name	OJ000329_04.0419.C44.o1.np	Method	AAT/NAP
Start	1014	End	3475
GI	7340884	Score	116
Exons	1014..1163, 1327..1363, 3402..3475		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		
Seq. No.	50944	Seq. ID	OJ000329_04.0419.C44
Gene No.	108004	Strand	+
Start	1	End	3475
Name	OJ000329_04.0419.C44.o2.np	Method	AAT/NAP
Start	1320	End	3475
GI	5922634	Score	80
Exons	1320..1421, 3439..3475		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016867 dbj BAA85210.1 (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	50945	Seq. ID	OJ000329_04.0419.C45
Gene No.	108005	Strand	+
Start	1	End	1049
Name	OJ000329_04.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	1049
GI	5295955	Score	255

Exons 1..324, 445..1049
 GI Descrip. (AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555)
 [Oryza sativa]

Seq. No.	50945	Seq. ID	OJ000329_04.0419.C45
Gene No.	108006	Strand	+
Start	1944	End	2254
Name	OJ000329_04.0419.C45.o2.gs	Method	GENSCAN
Start	1944	End	2254
GI	none	Score	.61
Exons	1944..2254		

Seq. No.	50945	Seq. ID	OJ000329_04.0419.C45
Gene No.	108007	Strand	-
Start	21	End	1501
Name	OJ000329_04.0419.C45.o1.gs	Method	GENSCAN
Start	21	End	1501
GI	none	Score	.78
Exons	21..313, 409..692, 766..856, 1495..1501		

Seq. No.	50946	Seq. ID	OJ000329_04.0419.C46
Gene No.	108008	Strand	+
Start	94	End	1952
Name	OJ000329_04.0419.C46.o1.gs	Method	GENSCAN
Start	94	End	1952
GI	none	Score	.7
Exons	94..140, 1485..1608, 1735..1952		

Seq. No.	50946	Seq. ID	OJ000329_04.0419.C46
Gene No.	108008	Strand	+
Start	94	End	1952
Name	OJ000329_04.0419.C46.o1.np	Method	AAT/NAP
Start	1485	End	1880
GI	5852182	Score	416
Exons	1485..1613, 1680..1880		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	50946	Seq. ID	OJ000329_04.0419.C46
Gene No.	108009	Strand	+
Start	2750	End	3460
Name	OJ000329_04.0419.C46.o2.gp	Method	AAT/GAP
Start	2750	End	3460
GI	4107138	Score	985
Exons	2750..3460		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-149 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl17804		

Seq. No.	50946	Seq. ID	OJ000329_04.0419.C46
Gene No.	108009	Strand	+
Start	2750	End	3460
Name	OJ000329_04.0419.C46.o1.gp	Method	AAT/GAP
Start	2758	End	3045
GI	61605_1.R1084	Score	471
Exons	2758..3045		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:tl17804'		

Seq. No.	50947	Seq. ID	OJ000329_06.0419.C3
Gene No.	108010	Strand	+
Start	343	End	511
Name	OJ000329_06.0419.C3.o1.gs	Method	GENSCAN
Start	343	End	511
GI	none	Score	.67
Exons	343..368, 392..511		
Seq. No.	50948	Seq. ID	OJ000329_06.0419.C5
Gene No.	108011	Strand	-
Start	59	End	937
Name	OJ000329_06.0419.C5.o1.gs	Method	GENSCAN
Start	59	End	937
GI	none	Score	.51
Exons	59..166, 242..352, 419..485, 570..937		
Seq. No.	50949	Seq. ID	OJ000329_06.0419.C6
Gene No.	108012	Strand	+
Start	2796	End	3003
Name	OJ000329_06.0419.C6.o1.gp	Method	AAT/GAP
Start	2796	End	3003
GI	556 1.R1084	Score	208
Exons	2796..3003		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	50949	Seq. ID	OJ000329_06.0419.C6
Gene No.	108013	Strand	+
Start	3617	End	7062
Name	OJ000329_06.0419.C6.o3.gs	Method	GENSCAN
Start	3617	End	6840
GI	none	Score	.46
Exons	3617..3673, 3956..4189, 4820..5071, 5780..5837, 6400..6617, 6832..6840		
Seq. No.	50949	Seq. ID	OJ000329_06.0419.C6
Gene No.	108013	Strand	+
Start	3617	End	7062
Name	OJ000329_06.0419.C6.o2.np	Method	AAT/NAP
Start	6447	End	7062
GI	4191779	Score	162
Exons	6447..6621, 7002..7062		
GI Descrip.	(AC005917) putative recA protein [Arabidopsis thaliana]		
Seq. No.	50949	Seq. ID	OJ000329_06.0419.C6
Gene No.	108014	Strand	-
Start	25	End	147
Name	OJ000329_06.0419.C6.o1.gs	Method	GENSCAN
Start	25	End	147
GI	none	Score	.73
Exons	25..147		
Seq. No.	50949	Seq. ID	OJ000329_06.0419.C6
Gene No.	108015	Strand	-
Start	1872	End	2450
Name	OJ000329_06.0419.C6.o2.gs	Method	GENSCAN
Start	1872	End	2450

GI	none	Score	.92
Exons	1872..2450		
Seq. No.	50949	Seq. ID	OJ000329_06.0419.C6
Gene No.	108015	Strand	-
Start	1872	End	2450
Name	OJ000329_06.0419.C6.o1.np	Method	AAT/NAP
Start	1893	End	2360
GI	7543739	Score	157
Exons	1893..2024, 2052..2360		
GI Descrip.	(AC020580) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50949	Seq. ID	OJ000329_06.0419.C6
Gene No.	108016	Strand	-
Start	6389	End	6617
Name	OJ000329_06.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	6389	End	6617
GI	none	Score	78
Exons	6389..6607, 6402..6617, 6452..6613		

Seq. No.	50950	Seq. ID	OJ000329_06.0419.C9
Gene No.	108017	Strand	+
Start	580	End	5286
Name	OJ000329_06.0419.C9.o1.np	Method	AAT/NAP
Start	580	End	5286
GI	7485703	Score	139
Exons	580..601, 2713..2843, 3075..3290, 5253..5286		
GI Descrip.	hypothetical protein F18B3.210 - Arabidopsis thaliana gi 4835244 emb CAB42922.1 (AL049862) putative mitochondrial protein [Arabidopsis thaliana]		

Seq. No.	50950	Seq. ID	OJ000329_06.0419.C9
Gene No.	108017	Strand	+
Start	580	End	5286
Name	OJ000329_06.0419.C9.o1.gp	Method	AAT/GAP
Start	3823	End	3932
GI	3763212	Score	146
Exons	3823..3932		

Seq. No.	50950	Seq. ID	OJ000329_06.0419.C9
Gene No.	108018	Strand	-
Start	2453	End	6919
Name	OJ000329_06.0419.C9.o1.gs	Method	GENSCAN
Start	2453	End	6919
GI	none	Score	.68
Exons	2453..2680, 3151..3273, 3355..3437, 3549..3701, 4698..4766, 4853..5140, 5234..5372, 6586..6919		

Seq. No.	50951	Seq. ID	OJ000329_06.0419.C11
Gene No.	108019	Strand	-
Start	696	End	756
Name	OJ000329_06.0419.C11.o1.gs	Method	GENSCAN
Start	696	End	756
GI	none	Score	.67
Exons	696..756		

Seq. No.	50952	Seq. ID	OJ000329_06.0419.C12
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Gene No.	108020	Strand	+
Start	176	End	847
Name	OJ000329_06.0419.C12.o1.gs	Method	GENSCAN
Start	176	End	847
GI	none	Score	.4
Exons	176..236, 423..535, 728..847		

Seq. No.	50952	Seq. ID	OJ000329_06.0419.C12
Gene No.	108021	Strand	+
Start	761	End	994
Name	OJ000329_06.0419.C12.o1.np	Method	AAT/NAP
Start	761	End	994
GI	5257279	Score	327
Exons	761..994		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108022	Strand	+
Start	526	End	651
Name	OJ000329_06.0419.C13.o1.gs	Method	GENSCAN
Start	526	End	651
GI	none	Score	.79
Exons	526..651		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108023	Strand	+
Start	11586	End	11828
Name	OJ000329_06.0419.C13.o4.gs	Method	GENSCAN
Start	11586	End	11828
GI	none	Score	.94
Exons	11586..11828		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108024	Strand	-
Start	2010	End	9151
Name	OJ000329_06.0419.C13.o2.gs	Method	GENSCAN
Start	2010	End	5825
GI	none	Score	.57
Exons	2010..2202, 2509..2674, 3717..3811, 3817..4124, 4395..4679, 5013..5825		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108024	Strand	-
Start	2010	End	9151
Name	OJ000329_06.0419.C13.o1.np	Method	AAT/NAP
Start	4386	End	4680
GI	453244	Score	255
Exons	4386..4680		
GI Descrip.	(X77467) flavonoid 7-O-methyltransferase [Hordeum vulgare]		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108024	Strand	-
Start	2010	End	9151
Name	OJ000329_06.0419.C13.o2.np	Method	AAT/NAP
Start	4386	End	5834
GI	7447882	Score	859

Exons 4386..4679, 5013..5834
 GI Descrip. herbicide safener binding protein 1 - maize
 gi|2921304|gb|AAC12715.1| (AF033496) herbicide safener binding
 protein [Zea mays]

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108024	Strand	-
Start	2010	End	9151
Name	OJ000329_06.0419.C13.o3.np	Method	AAT/NAP
Start	5688	End	7800
GI	7523517	Score	389
Exons	5688..5954, 7235..7344, 7501..7800		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108024	Strand	-
Start	2010	End	9151
Name	OJ000329_06.0419.C13.o3.gs	Method	GENSCAN
Start	7257	End	9151
GI	none	Score	.77
Exons	7257..7344, 7538..7683, 7839..8292, 8372..8591, 9091..9151		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108025	Strand	-
Start	12545	End	13601
Name	OJ000329_06.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	2503	End	5814
GI	none	Score	83
Exons	2503..2538, 2544..2678, 2569..2679, 2691..2777, 4383..4556, 4384..4515, 4567..4638, 4602..4679, 5004..5078, 5005..5073, 5019..5084, 5069..5176, 5097..5177, 5107..5178, 5169..5354, 5170..5361, 5385..5483, 5389..5484, 5505..5543, 5506..5544, 5583..5813, 5587..5814		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108025	Strand	-
Start	12545	End	13601
Name	OJ000329_06.0419.C13.o5.tw	Method	TBLASTX:Wheat
Start	2535	End	4682
GI	none	Score	118
Exons	2535..2564, 2544..2777, 2569..2787, 2592..2804, 2686..2802, 4314..4682, 4377..4547, 4602..4679		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108025	Strand	-
Start	12545	End	13601
Name	OJ000329_06.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	5004	End	5801
GI	none	Score	159
Exons	5004..5075, 5097..5312, 5583..5801		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108025	Strand	-
Start	12545	End	13601
Name	OJ000329_06.0419.C13.o2.tw	Method	TBLASTX:Wheat
Start	5004	End	5364
GI	none	Score	66

Exons 5004..5081, 5008..5082, 5097..5231, 5097..5354, 5098..5364

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108025	Strand	-
Start	12545	End	13601
Name	OJ000329_06.0419.C13.o4.tw	Method	TBLASTX:Wheat
Start	5385	End	5832
GI	none	Score	103
Exons	5385..5486, 5388..5486, 5503..5547, 5505..5543, 5583..5831, 5584..5832		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108025	Strand	-
Start	12545	End	13601
Name	OJ000329_06.0419.C13.o5.gs	Method	GENSCAN
Start	12545	End	13591
GI	none	Score	.99
Exons	12545..13591		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108025	Strand	-
Start	12545	End	13601
Name	OJ000329_06.0419.C13.o4.np	Method	AAT/NAP
Start	12554	End	13601
GI	4539660	Score	1352
Exons	12554..13601		
GI Descrip.	(AF061282) polyprotein [Sorghum bicolor]		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108025	Strand	-
Start	12545	End	13601
Name	OJ000329_06.0419.C13.o3.tw	Method	TBLASTX:Wheat
Start	12566	End	12899
GI	none	Score	104
Exons	12566..12898, 12675..12899		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108025	Strand	-
Start	12545	End	13601
Name	OJ000329_06.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	12758	End	13342
GI	none	Score	109
Exons	12758..13186, 12759..12959, 12899..13246, 13184..13342, 13188..13340		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108025	Strand	-
Start	12545	End	13601
Name	OJ000329_06.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	12899	End	13525
GI	none	Score	179
Exons	12899..13432, 12899..13525, 13011..13523		

Seq. No.	50953	Seq. ID	OJ000329_06.0419.C13
Gene No.	108025	Strand	-
Start	12545	End	13601
Name	OJ000329_06.0419.C13.o3.tm	Method	TBLASTX:Maize

Start 13343
 GI none
 Exons 13343..13567, 13347..13565

End 13567
 Score 211

Seq. No. 50954
 Gene No. 108026
 Start 380
 Name OJ000329_06.0419.C14.o1.gs
 Start 380
 GI none
 Exons 380..467, 635..759, 826..1017, 1088..1146, 1321..1897

Seq. ID OJ000329_06.0419.C14
 Strand +
 End 1993
 Method GENSCAN
 End 1897
 Score .71

Seq. No. 50954
 Gene No. 108026
 Start 380
 Name OJ000329_06.0419.C14.o1.np
 Start 395
 GI 6539586
 Exons 395..541
 GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. ID OJ000329_06.0419.C14
 Strand +
 End 1993
 Method AAT/NAP
 End 541
 Score 42

Seq. No. 50954
 Gene No. 108026
 Start 380
 Name OJ000329_06.0419.C14.o2.np
 Start 535
 GI 6721558
 Exons 535..759, 1342..1551
 GI Descrip. (AP001073) hypothetical protein [Oryza sativa]
 gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]

Seq. ID OJ000329_06.0419.C14
 Strand +
 End 1993
 Method AAT/NAP
 End 1551
 Score 129

Seq. No. 50954
 Gene No. 108026
 Start 380
 Name OJ000329_06.0419.C14.o3.np
 Start 645
 GI 6721561
 Exons 645..716, 829..1017, 1088..1146, 1228..1993
 GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]
 gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. ID OJ000329_06.0419.C14
 Strand +
 End 1993
 Method AAT/NAP
 End 1993
 Score 1243

Seq. No. 50954
 Gene No. 108027
 Start 1918
 Name OJ000329_06.0419.C14.o2.tw
 Start 695
 GI none
 Exons 695..751, 2079..2207, 2222..2398, 2265..2372

Seq. ID OJ000329_06.0419.C14
 Strand -
 End 2836
 Method TBLASTX:Wheat
 End 2398
 Score 52

Seq. No. 50954
 Gene No. 108027
 Start 1918
 Name OJ000329_06.0419.C14.o4.np

Seq. ID OJ000329_06.0419.C14
 Strand -
 End 2836
 Method AAT/NAP

Start	1918	End	2836
GI	7228457	Score	701
Exons	1918..2836		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	50954	Seq. ID	OJ000329_06.0419.C14
Gene No.	108027	Strand	-
Start	1918	End	2836
Name	OJ000329_06.0419.C14.o2.gs	Method	GENSCAN
Start	2019	End	2712
GI	none	Score	.89
Exons	2019..2135, 2243..2712		

Seq. No.	50954	Seq. ID	OJ000329_06.0419.C14
Gene No.	108027	Strand	-
Start	1918	End	2836
Name	OJ000329_06.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	2411	End	2809
GI	none	Score	81
Exons	2411..2809, 2546..2764, 2553..2792		

Seq. No.	50954	Seq. ID	OJ000329_06.0419.C14
Gene No.	108027	Strand	-
Start	1918	End	2836
Name	OJ000329_06.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	2498	End	2836
GI	none	Score	90
Exons	2498..2611, 2609..2836, 2610..2801		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108028	Strand	+
Start	3452	End	4871
Name	OJ000329_06.0419.C15.o2.np	Method	AAT/NAP
Start	3452	End	4871
GI	7340868	Score	154
Exons	3452..3652, 4763..4871		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108029	Strand	+
Start	4917	End	5305
Name	OJ000329_06.0419.C15.o3.np	Method	AAT/NAP
Start	4917	End	5305
GI	7340868	Score	189
Exons	4917..5107, 5175..5305		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108030	Strand	-
Start	1	End	5305
Name	OJ000329_06.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	5200
GI	7228457	Score	1564
Exons	1..391, 458..2116, 2171..3322, 4704..4813, 5103..5200		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type		

retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108030	Strand	-
Start	1	End	5305
Name	OJ000329_06.0419.C15.o1.gs	Method	GENSCAN
Start	10	End	5202
GI	none	Score	.43
Exons	10..239, 351..644, 696..1072, 1182..1289, 1496..1683, 1962..2085, 2148..2387, 2424..2632, 2737..3030, 3599..3690, 5035..5202		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108030	Strand	-
Start	1	End	5305
Name	OJ000329_06.0419.C15.o5.tw	Method	TBLASTX:Wheat
Start	119	End	440
GI	none	Score	66
Exons	119..439, 300..440		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108030	Strand	-
Start	1	End	5305
Name	OJ000329_06.0419.C15.o4.tw	Method	TBLASTX:Wheat
Start	479	End	887
GI	none	Score	110
Exons	479..646, 660..887, 662..886		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108030	Strand	-
Start	1	End	5305
Name	OJ000329_06.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	884	End	1310
GI	none	Score	124
Exons	884..910, 919..957, 962..1036, 1055..1309, 1077..1310		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108030	Strand	-
Start	1	End	5305
Name	OJ000329_06.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	977	End	1345
GI	none	Score	36
Exons	977..1345, 1134..1166, 1218..1343		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108030	Strand	-
Start	1	End	5305
Name	OJ000329_06.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	1032	End	1453
GI	none	Score	240
Exons	1032..1358, 1034..1348, 1065..1382, 1385..1453		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108030	Strand	-
Start	1	End	5305
Name	OJ000329_06.0419.C15.o1.tm	Method	TBLASTX:Maize

Start	1538	End	1854
GI	none	Score	84
Exons	1538..1723, 1566..1715, 1698..1853, 1699..1854		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108030	Strand	-
Start	1	End	5305
Name	OJ000329_06.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	1568	End	2025
GI	none	Score	130
Exons	1568..1723, 1569..1715, 1696..2025, 1697..1819, 1698..2024		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108030	Strand	-
Start	1	End	5305
Name	OJ000329_06.0419.C15.o3.tw	Method	TBLASTX:Wheat
Start	2217	End	2634
GI	none	Score	38
Exons	2217..2453, 2227..2292, 2232..2441, 2335..2451, 2490..2633, 2491..2634		

Seq. No.	50955	Seq. ID	OJ000329_06.0419.C15
Gene No.	108030	Strand	-
Start	1	End	5305
Name	OJ000329_06.0419.C15.o4.np	Method	AAT/NAP
Start	2476	End	5305
GI	5042454	Score	202
Exons	2476..2583, 5126..5305		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	50956	Seq. ID	OJ000329_06.0419.C16
Gene No.	108031	Strand	-
Start	1	End	179
Name	OJ000329_06.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	179
GI	7523517	Score	207
Exons	1..179		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	50957	Seq. ID	OJ000329_06.0419.C17
Gene No.	108032	Strand	+
Start	2003	End	2643
Name	OJ000329_06.0419.C17.o1.np	Method	AAT/NAP
Start	2003	End	2643
GI	7523517	Score	195
Exons	2003..2316, 2461..2533, 2603..2643		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	50957	Seq. ID	OJ000329_06.0419.C17
Gene No.	108033	Strand	-
Start	101	End	902
Name	OJ000329_06.0419.C17.o1.gs	Method	GENSCAN
Start	101	End	902
GI	none	Score	.75
Exons	101..202, 738..902		

Seq. No.	50958	Seq. ID	OJ000329_06.0419.C18
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Gene No.	108034	Strand	+
Start	1	End	2833
Name	OJ000329_06.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	2833
GI	7228457	Score	1545
Exons	1..1569, 1624..2504, 2634..2833		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	50958	Seq. ID	OJ000329_06.0419.C18
Gene No.	108034	Strand	+
Start	1	End	2833
Name	OJ000329_06.0419.C18.o4.tw	Method	TBLASTX:Wheat
Start	96	End	358
GI	none	Score	60
Exons	96..140, 187..342, 194..358		

Seq. No.	50958	Seq. ID	OJ000329_06.0419.C18
Gene No.	108034	Strand	+
Start	1	End	2833
Name	OJ000329_06.0419.C18.o3.tw	Method	TBLASTX:Wheat
Start	1054	End	1509
GI	none	Score	143
Exons	1054..1236, 1062..1235, 1273..1509, 1275..1391, 1285..1494, 1434..1499		

Seq. No.	50958	Seq. ID	OJ000329_06.0419.C18
Gene No.	108034	Strand	+
Start	1	End	2833
Name	OJ000329_06.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	1702	End	2155
GI	none	Score	96
Exons	1702..1788, 1710..1787, 1791..2144, 1796..2155, 1952..2155		

Seq. No.	50958	Seq. ID	OJ000329_06.0419.C18
Gene No.	108034	Strand	+
Start	1	End	2833
Name	OJ000329_06.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	1830	End	2186
GI	none	Score	373
Exons	1830..2186, 1871..2185		

Seq. No.	50958	Seq. ID	OJ000329_06.0419.C18
Gene No.	108034	Strand	+
Start	1	End	2833
Name	OJ000329_06.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	2214	End	2596
GI	none	Score	299
Exons	2214..2579, 2249..2311, 2381..2596		

Seq. No.	50958	Seq. ID	OJ000329_06.0419.C18
Gene No.	108034	Strand	+
Start	1	End	2833
Name	OJ000329_06.0419.C18.o2.tw	Method	TBLASTX:Wheat
Start	2271	End	2694
GI	none	Score	333

Exons 2271..2579, 2274..2579, 2381..2599, 2578..2694, 2582..2692

Seq. No.	50958	Seq. ID	OJ000329_06.0419.C18
Gene No.	108034	Strand	+
Start	1	End	2833
Name	OJ000329_06.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	2325	End	2749
GI	none	Score	203
Exons	2325..2579, 2384..2509, 2567..2749		

Seq. No.	50959	Seq. ID	OJ000329_06.0419.C19
Gene No.	108035	Strand	+
Start	1	End	4006
Name	OJ000329_06.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1643
GI	5902445	Score	1260
Exons	1..320, 356..1643		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	50959	Seq. ID	OJ000329_06.0419.C19
Gene No.	108035	Strand	+
Start	1	End	4006
Name	OJ000329_06.0419.C19.o1.gs	Method	GENSCAN
Start	73	End	467
GI	none	Score	.48
Exons	73..467		

Seq. No.	50959	Seq. ID	OJ000329_06.0419.C19
Gene No.	108035	Strand	+
Start	1	End	4006
Name	OJ000329_06.0419.C19.o2.gs	Method	GENSCAN
Start	550	End	4006
GI	none	Score	.45
Exons	550..886, 1045..1501, 2927..3039, 3105..3304, 3371..4006		

Seq. No.	50959	Seq. ID	OJ000329_06.0419.C19
Gene No.	108035	Strand	+
Start	1	End	4006
Name	OJ000329_06.0419.C19.o2.np	Method	AAT/NAP
Start	3071	End	3730
GI	7248393	Score	289
Exons	3071..3730		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	50959	Seq. ID	OJ000329_06.0419.C19
Gene No.	108036	Strand	-
Start	5041	End	5289
Name	OJ000329_06.0419.C19.o3.tw	Method	TBLASTX:Wheat
Start	3	End	293
GI	none	Score	213
Exons	3..293, 41..289		

Seq. No.	50959	Seq. ID	OJ000329_06.0419.C19
Gene No.	108036	Strand	-
Start	5041	End	5289
Name	OJ000329_06.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	498	End	803

GI	none	Score	301
Exons	498..803, 515..802		
Seq. No.	50959	Seq. ID	OJ000329_06.0419.C19
Gene No.	108036	Strand	-
Start	5041	End	5289
Name	OJ000329_06.0419.C19.o2.tw	Method	TBLASTX:Wheat
Start	498	End	884
GI	none	Score	322
Exons	498..884, 506..880		
Seq. No.	50959	Seq. ID	OJ000329_06.0419.C19
Gene No.	108036	Strand	-
Start	5041	End	5289
Name	OJ000329_06.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	1005	End	1457
GI	none	Score	328
Exons	1005..1457, 1019..1108, 1154..1258		
Seq. No.	50959	Seq. ID	OJ000329_06.0419.C19
Gene No.	108036	Strand	-
Start	5041	End	5289
Name	OJ000329_06.0419.C19.o3.gs	Method	GENSCAN
Start	5041	End	5289
GI	none	Score	.98
Exons	5041..5289		
Seq. No.	50960	Seq. ID	OJ000329_06.0419.C23
Gene No.	108037	Strand	+
Start	2814	End	5180
Name	OJ000329_06.0419.C23.o1.gp	Method	AAT/GAP
Start	2814	End	5180
GI	3107009	Score	669
Exons	2814..2905, 3954..4042, 4990..5180		
GI Descrip.	4521194/dbj AB013613.1 AB013613 6.0e-40 Oryza sativa DNA, centromere sequence RCB11		
Seq. No.	50960	Seq. ID	OJ000329_06.0419.C23
Gene No.	108038	Strand	-
Start	6144	End	7287
Name	OJ000329_06.0419.C23.o1.np	Method	AAT/NAP
Start	6144	End	7287
GI	6815097	Score	53
Exons	6144..6282, 7141..7287		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		
Seq. No.	50961	Seq. ID	OJ000329_06.0419.C24
Gene No.	108039	Strand	+
Start	39	End	1660
Name	OJ000329_06.0419.C24.o1.gs	Method	GENSCAN
Start	39	End	530
GI	none	Score	.41
Exons	39..530		
Seq. No.	50961	Seq. ID	OJ000329_06.0419.C24
Gene No.	108039	Strand	+

Start	39	End	1660
Name	OJ000329_06.0419.C24.o1.np	Method	AAT/NAP
Start	378	End	1660
GI	6997177	Score	559
Exons	378..460, 1058..1660		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50961	Seq. ID	OJ000329_06.0419.C24
Gene No.	108039	Strand	+
Start	39	End	1660
Name	OJ000329_06.0419.C24.o2.gs	Method	GENSCAN
Start	942	End	1596
GI	none	Score	.77
Exons	942..1596		

Seq. No.	50961	Seq. ID	OJ000329_06.0419.C24
Gene No.	108039	Strand	+
Start	39	End	1660
Name	OJ000329_06.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	1131	End	1490
GI	none	Score	241
Exons	1131..1490, 1163..1465		

Seq. No.	50961	Seq. ID	OJ000329_06.0419.C24
Gene No.	108039	Strand	+
Start	39	End	1660
Name	OJ000329_06.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	1278	End	1658
GI	none	Score	334
Exons	1278..1607, 1304..1429, 1486..1605, 1523..1606, 1611..1658		

Seq. No.	50962	Seq. ID	OJ000329_06.0419.C25
Gene No.	108040	Strand	+
Start	4809	End	6900
Name	OJ000329_06.0419.C25.o1.np	Method	AAT/NAP
Start	4809	End	6900
GI	7447882	Score	927
Exons	4809..5624, 6607..6900		
GI Descrip.	herbicide safener binding protein 1 - maize gi 2921304 gb AAC12715.1 (AF033496) herbicide safener binding protein [Zea mays]		

Seq. No.	50962	Seq. ID	OJ000329_06.0419.C25
Gene No.	108041	Strand	+
Start	8810	End	9882
Name	OJ000329_06.0419.C25.o2.tw	Method	TBLASTX:Wheat
Start	4811	End	5243
GI	none	Score	259
Exons	4811..5059, 4812..5060, 5097..5135, 5154..5243, 5154..5243		

Seq. No.	50962	Seq. ID	OJ000329_06.0419.C25
Gene No.	108041	Strand	+
Start	8810	End	9882
Name	OJ000329_06.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	4829	End	6903
GI	none	Score	256
Exons	4829..5056, 4830..5060, 5097..5135, 5157..5255, 5162..5254,		

5273..5482, 5274..5465, 5456..5557, 5457..5564, 5478..5570,
5559..5630, 5559..5618, 5564..5626, 6461..6511, 6625..6681,
6654..6719, 6729..6902, 6730..6903

Seq. No.	50962	Seq. ID	OJ000329_06.0419.C25
Gene No.	108041	Strand	+
Start	8810	End	9882
Name	OJ000329_06.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	4842	End	5638
GI	none	Score	180
Exons	4842..5060, 5274..5312, 5322..5630, 5408..5638		

Seq. No.	50962	Seq. ID	OJ000329_06.0419.C25
Gene No.	108041	Strand	+
Start	8810	End	9882
Name	OJ000329_06.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	5244	End	5631
GI	none	Score	427
Exons	5244..5630, 5258..5626, 5280..5630, 5515..5631		

Seq. No.	50962	Seq. ID	OJ000329_06.0419.C25
Gene No.	108041	Strand	+
Start	8810	End	9882
Name	OJ000329_06.0419.C25.o3.tw	Method	TBLASTX:Wheat
Start	6649	End	6917
GI	none	Score	260
Exons	6649..6915, 6654..6917		

Seq. No.	50962	Seq. ID	OJ000329_06.0419.C25
Gene No.	108041	Strand	+
Start	8810	End	9882
Name	OJ000329_06.0419.C25.o1.gp	Method	AAT/GAP
Start	8810	End	9570
GI	5816562	Score	674
Exons	8810..9223, 9544..9570		
GI Descrip.	6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No.	50962	Seq. ID	OJ000329_06.0419.C25
Gene No.	108041	Strand	+
Start	8810	End	9882
Name	OJ000329_06.0419.C25.o2.np	Method	AAT/NAP
Start	9269	End	9882
GI	5902444	Score	668
Exons	9269..9882		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	50963	Seq. ID	OJ000329_06.0419.C26
Gene No.	108042	Strand	+
Start	1	End	1259
Name	OJ000329_06.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	1256
GI	5902444	Score	1854
Exons	1..1256		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	50963	Seq. ID	OJ000329_06.0419.C26
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Gene No.	108042	Strand	+
Start	1	End	1259
Name	OJ000329_06.0419.C26.o1.gs	Method	GENSCAN
Start	61	End	1259
GI	none	Score	.98
Exons	61..1259		

Seq. No.	50963	Seq. ID	OJ000329_06.0419.C26
Gene No.	108043	Strand	+
Start	1323	End	1439
Name	OJ000329_06.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	591	End	1388
GI	none	Score	140
Exons	591..767, 812..1048, 816..1046, 1095..1388, 1223..1384		

Seq. No.	50963	Seq. ID	OJ000329_06.0419.C26
Gene No.	108043	Strand	+
Start	1323	End	1439
Name	OJ000329_06.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	899	End	1077
GI	none	Score	187
Exons	899..1045, 900..1076, 952..1077		

Seq. No.	50963	Seq. ID	OJ000329_06.0419.C26
Gene No.	108043	Strand	+
Start	1323	End	1439
Name	OJ000329_06.0419.C26.o2.np	Method	AAT/NAP
Start	1323	End	1439
GI	5902445	Score	182
Exons	1323..1439		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	50964	Seq. ID	OJ000329_06.0419.C28
Gene No.	108044	Strand	-
Start	1	End	861
Name	OJ000329_06.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	861
GI	4191779	Score	264
Exons	1..118, 291..428, 827..861		
GI Descrip.	(AC005917) putative recA protein [Arabidopsis thaliana]		

Seq. No.	50964	Seq. ID	OJ000329_06.0419.C28
Gene No.	108044	Strand	-
Start	1	End	861
Name	OJ000329_06.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	2	End	416
GI	none	Score	86
Exons	2..124, 5..121, 279..416, 292..408		

Seq. No.	50964	Seq. ID	OJ000329_06.0419.C28
Gene No.	108044	Strand	-
Start	1	End	861
Name	OJ000329_06.0419.C28.o1.gs	Method	GENSCAN
Start	34	End	425
GI	none	Score	.99
Exons	34..118, 291..425		

Seq. No.	50965	Seq. ID	OJ000329_06.0419.C29
Gene No.	108045	Strand	+
Start	35	End	823
Name	OJ000329_06.0419.C29.o1.gs	Method	GENSCAN
Start	35	End	823
GI	none	Score	.97
Exons	35..216, 457..823		

Seq. No.	50966	Seq. ID	OJ000329_06.0419.C31
Gene No.	108046	Strand	+
Start	561	End	4237
Name	OJ000329_06.0419.C31.o1.gs	Method	GENSCAN
Start	561	End	4218
GI	none	Score	.81
Exons	561..623, 1010..1217, 2331..2477, 2861..3075, 3147..3196, 3769..4218		

Seq. No.	50966	Seq. ID	OJ000329_06.0419.C31
Gene No.	108046	Strand	+
Start	561	End	4237
Name	OJ000329_06.0419.C31.o2.np	Method	AAT/NAP
Start	2097	End	4237
GI	7438038	Score	462
Exons	2097..2137, 3685..4237		
GI Descrip.	argininosuccinate synthase (EC 6.3.4.5) - Arabidopsis thaliana gi 4678262 emb CAB41123.1 (AL049657) argininosuccinate synthase-like protein [Arabidopsis thaliana] gi 7269334 emb CAB79393.1 (AL161562) argininosuccinate synthase-like protein [Arabidopsis thaliana]		

Seq. No.	50966	Seq. ID	OJ000329_06.0419.C31
Gene No.	108046	Strand	+
Start	561	End	4237
Name	OJ000329_06.0419.C31.o1.np	Method	AAT/NAP
Start	3681	End	4237
GI	7438038	Score	465
Exons	3681..4237		
GI Descrip.	argininosuccinate synthase (EC 6.3.4.5) - Arabidopsis thaliana gi 4678262 emb CAB41123.1 (AL049657) argininosuccinate synthase-like protein [Arabidopsis thaliana] gi 7269334 emb CAB79393.1 (AL161562) argininosuccinate synthase-like protein [Arabidopsis thaliana]		

Seq. No.	50966	Seq. ID	OJ000329_06.0419.C31
Gene No.	108047	Strand	-
Start	1219	End	1819
Name	OJ000329_06.0419.C31.o1.gp	Method	AAT/GAP
Start	1219	End	1819
GI	none	Score	1169
Exons	1219..1819		

Seq. No.	50966	Seq. ID	OJ000329_06.0419.C31
Gene No.	108048	Strand	-
Start	1994	End	3188
Name	OJ000329_06.0419.C31.o2.gp	Method	AAT/GAP
Start	1994	End	3188
GI	uC-osflm202113h08b1	Score	981

Exons 1994..2114, 2589..2676, 2783..2845, 2929..3188
 GI Descrip. '4521194/dbj|AB013613.1|AB013613 6.0e-40 Oryza sativa DNA, centromere sequence RCB11'

Seq. No. 50966 Seq. ID OJ000329_06.0419.C31
 Gene No. 108049 Strand
 Start 3671 End 4309
 Name OJ000329_06.0419.C31.o1.ts Method TBLASTX:Soybean
 Start 3671 End 4309
 GI none Score 72
 Exons 3671..3814, 3687..3839, 3687..3956, 3688..3969, 3938..4084, 3950..4078, 3958..4083, 4063..4134, 4074..4133, 4137..4181, 4168..4308, 4181..4309

Seq. No. 50966 Seq. ID OJ000329_06.0419.C31
 Gene No. 108049 Strand
 Start 3671 End 4309
 Name OJ000329_06.0419.C31.o1.tm Method TBLASTX:Maize
 Start 3687 End 4309
 GI none Score 253
 Exons 3687..3956, 3687..3956, 3688..3969, 3688..3966, 3905..4078, 3937..4107, 3938..4108, 4063..4134, 4074..4133, 4137..4181, 4137..4172, 4167..4307, 4168..4308, 4181..4309

Seq. No. 50966 Seq. ID OJ000329_06.0419.C31
 Gene No. 108049 Strand
 Start 3671 End 4309
 Name OJ000329_06.0419.C31.o1.tc Method TBLASTX:Cress
 Start 3733 End 4288
 GI none Score 163
 Exons 3733..3906, 3747..3908, 3772..3867, 3777..3905, 3907..3939, 3933..4043, 3946..4074, 3955..4083, 3956..4114, 4063..4152, 4137..4175, 4168..4254, 4181..4255, 4256..4288

Seq. No. 50967 Seq. ID OJ000329_06.0419.C32
 Gene No. 108050 Strand +
 Start 197 End 1489
 Name OJ000329_06.0419.C32.o1.gs Method GENSCAN
 Start 197 End 1489
 GI none Score .74
 Exons 197..409, 1333..1489

Seq. No. 50967 Seq. ID OJ000329_06.0419.C32
 Gene No. 108051 Strand +
 Start 3608 End 4073
 Name OJ000329_06.0419.C32.o1.gp Method AAT/GAP
 Start 3608 End 4073
 GI 2428157 Score 876
 Exons 3608..4073

Seq. No. 50967 Seq. ID OJ000329_06.0419.C32
 Gene No. 108052 Strand -
 Start 2427 End 5195
 Name OJ000329_06.0419.C32.o2.gs Method GENSCAN
 Start 2427 End 5195
 GI none Score .84
 Exons 2427..2723, 3664..3756, 3818..3988, 5109..5195

Seq. No.	50967	Seq. ID	OJ000329_06.0419.C32
Gene No.	108052	Strand	-
Start	2427	End	5195
Name	OJ000329_06.0419.C32.o1.np	Method	AAT/NAP
Start	2430	End	2723
GI	7447882	Score	277
Exons	2430..2723		
GI Descrip.	herbicide safener binding protein 1 - maize gi 2921304 gb AAC12715.1 (AF033496) herbicide safener binding protein [Zea mays]		

Seq. No.	50967	Seq. ID	OJ000329_06.0419.C32
Gene No.	108053	Strand	-
Start	6708	End	6947
Name	OJ000329_06.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	2395	End	2717
GI	none	Score	238
Exons	2395..2544, 2421..2717, 2428..2715		

Seq. No.	50967	Seq. ID	OJ000329_06.0419.C32
Gene No.	108053	Strand	-
Start	6708	End	6947
Name	OJ000329_06.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	2418	End	2718
GI	none	Score	136
Exons	2418..2597, 2427..2594, 2428..2601, 2617..2718, 2634..2717		

Seq. No.	50967	Seq. ID	OJ000329_06.0419.C32
Gene No.	108053	Strand	-
Start	6708	End	6947
Name	OJ000329_06.0419.C32.o3.gs	Method	GENSCAN
Start	6708	End	6947
GI	none	Score	.73
Exons	6708..6754, 6809..6947		

Seq. No.	50968	Seq. ID	OJ000329_06.0419.C33
Gene No.	108054	Strand	+
Start	4655	End	8196
Name	OJ000329_06.0419.C33.o2.gs	Method	GENSCAN
Start	4655	End	6106
GI	none	Score	.72
Exons	4655..4674, 5202..5336, 5444..5618, 5672..6106		

Seq. No.	50968	Seq. ID	OJ000329_06.0419.C33
Gene No.	108054	Strand	+
Start	4655	End	8196
Name	OJ000329_06.0419.C33.o2.np	Method	AAT/NAP
Start	5778	End	8196
GI	5902928	Score	226
Exons	5778..5879, 6341..6428, 6545..6654, 8175..8196		
GI Descrip.	(AB029509) small GTP-binding protein OsRac2 [Oryza sativa]		

Seq. No.	50968	Seq. ID	OJ000329_06.0419.C33
Gene No.	108054	Strand	+
Start	4655	End	8196
Name	OJ000329_06.0419.C33.o1.gp	Method	AAT/GAP

Start	6341	End	6654
GI	145_3.R1084	Score	286
Exons	6341..6428, 6545..6654		
GI Descrip.	'5902928/dbj BAA84493.1 1.0e-121 (AB029509) small GTP-binding protein OsRac2 [Oryza sativa]'		

Seq. No.	50968	Seq. ID	OJ000329_06.0419.C33
Gene No.	108055	Strand	-
Start	54	End	2140
Name	OJ000329_06.0419.C33.o1.np	Method	AAT/NAP
Start	54	End	2140
GI	7447882	Score	493
Exons	54..81, 1354..2140		
GI Descrip.	herbicide safener binding protein 1 - maize gi 2921304 gb AAC12715.1 (AF033496) herbicide safener binding protein [Zea mays]		

Seq. No.	50968	Seq. ID	OJ000329_06.0419.C33
Gene No.	108055	Strand	-
Start	54	End	2140
Name	OJ000329_06.0419.C33.o2.tw	Method	TBLASTX:Wheat
Start	1356	End	1649
GI	none	Score	96
Exons	1356..1454, 1359..1457, 1451..1648, 1451..1648, 1452..1649		

Seq. No.	50968	Seq. ID	OJ000329_06.0419.C33
Gene No.	108055	Strand	-
Start	54	End	2140
Name	OJ000329_06.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	1451	End	2125
GI	none	Score	167
Exons	1451..1513, 1481..1546, 1550..1648, 1619..1687, 1706..1795, 1875..2039, 1877..2125, 2042..2113		

Seq. No.	50968	Seq. ID	OJ000329_06.0419.C33
Gene No.	108055	Strand	-
Start	54	End	2140
Name	OJ000329_06.0419.C33.o2.ts	Method	TBLASTX:Soybean
Start	1451	End	2107
GI	none	Score	169
Exons	1451..1567, 1658..1687, 1694..1792, 1886..2107		

Seq. No.	50968	Seq. ID	OJ000329_06.0419.C33
Gene No.	108055	Strand	-
Start	54	End	2140
Name	OJ000329_06.0419.C33.o1.tw	Method	TBLASTX:Wheat
Start	1703	End	2119
GI	none	Score	63
Exons	1703..1786, 1703..1789, 1860..2039, 1868..2119, 2039..2107		

Seq. No.	50968	Seq. ID	OJ000329_06.0419.C33
Gene No.	108056	Strand	-
Start	6340	End	6654
Name	OJ000329_06.0419.C33.o1.tc	Method	TBLASTX:Cress
Start	6340	End	6654
GI	none	Score	152
Exons	6340..6429, 6341..6445, 6354..6440, 6544..6654, 6585..6650		

Seq. No.	50968	Seq. ID	OJ000329_06.0419.C33
Gene No.	108056	Strand	
Start	6340	End	6654
Name	OJ000329_06.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	6340	End	6654
GI	none	Score	153
Exons	6340..6429, 6341..6445, 6540..6650, 6542..6652, 6544..6654, 6544..6654		

Seq. No.	50968	Seq. ID	OJ000329_06.0419.C33
Gene No.	108056	Strand	
Start	6340	End	6654
Name	OJ000329_06.0419.C33.o2.tm	Method	TBLASTX:Maize
Start	6340	End	6654
GI	none	Score	106
Exons	6340..6423, 6340..6429, 6341..6445, 6542..6583, 6544..6654, 6544..6654		

Seq. No.	50969	Seq. ID	OJ000329_06.0419.C34
Gene No.	108057	Strand	+
Start	6732	End	7230
Name	OJ000329_06.0419.C34.o2.np	Method	AAT/NAP
Start	6732	End	7230
GI	5902448	Score	798
Exons	6732..7230		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	50969	Seq. ID	OJ000329_06.0419.C34
Gene No.	108058	Strand	-
Start	1	End	4018
Name	OJ000329_06.0419.C34.o1.np	Method	AAT/NAP
Start	1	End	4018
GI	6682245	Score	322
Exons	1..65, 1878..2429, 3988..4018		
GI Descrip.	(AC016661) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50969	Seq. ID	OJ000329_06.0419.C34
Gene No.	108058	Strand	-
Start	1	End	4018
Name	OJ000329_06.0419.C34.o1.gs	Method	GENSCAN
Start	86	End	3989
GI	none	Score	.46
Exons	86..2537, 3495..3665, 3758..3901, 3939..3989		

Seq. No.	50969	Seq. ID	OJ000329_06.0419.C34
Gene No.	108059	Strand	-
Start	5692	End	6911
Name	OJ000329_06.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	56	End	604
GI	none	Score	194
Exons	56..241, 61..249, 63..248, 224..310, 306..593, 319..582, 326..604		

Seq. No.	50969	Seq. ID	OJ000329_06.0419.C34
Gene No.	108059	Strand	-
Start	5692	End	6911

Name	OJ000329_06.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	2137	End	2433
GI	none	Score	158
Exons	2137..2433, 2145..2432		
Seq. No.	50969	Seq. ID	OJ000329_06.0419.C34
Gene No.	108059	Strand	-
Start	5692	End	6911
Name	OJ000329_06.0419.C34.o1.gp	Method	AAT/GAP
Start	5285	End	5695
GI	5816562	Score	662
Exons	5285..5695		
GI Descrip.	6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		
Seq. No.	50969	Seq. ID	OJ000329_06.0419.C34
Gene No.	108059	Strand	-
Start	5692	End	6911
Name	OJ000329_06.0419.C34.o2.gs	Method	GENSCAN
Start	5692	End	6911
GI	none	Score	.5
Exons	5692..5762, 6716..6911		
Seq. No.	50969	Seq. ID	OJ000329_06.0419.C34
Gene No.	108060	Strand	-
Start	6852	End	7142
Name	OJ000329_06.0419.C34.o1.tw	Method	TBLASTX:Wheat
Start	6852	End	7142
GI	none	Score	197
Exons	6852..7142		
Seq. No.	50970	Seq. ID	OJ000329_06.0419.C35
Gene No.	108061	Strand	+
Start	1	End	679
Name	OJ000329_06.0419.C35.o1.np	Method	AAT/NAP
Start	1	End	679
GI	6691716	Score	619
Exons	1..158, 232..679		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1 (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	50970	Seq. ID	OJ000329_06.0419.C35
Gene No.	108061	Strand	+
Start	1	End	679
Name	OJ000329_06.0419.C35.o1.gs	Method	GENSCAN
Start	54	End	619
GI	none	Score	.58
Exons	54..158, 232..308, 398..619		
Seq. No.	50970	Seq. ID	OJ000329_06.0419.C35
Gene No.	108062	Strand	-
Start	1012	End	1306
Name	OJ000329_06.0419.C35.o2.gs	Method	GENSCAN
Start	1012	End	1243
GI	none	Score	.74
Exons	1012..1243		

Seq. No.	50970	Seq. ID	OJ000329_06.0419.C35
Gene No.	108062	Strand	-
Start	1012	End	1306
Name	OJ000329_06.0419.C35.o2.np	Method	AAT/NAP
Start	1015	End	1306
GI	5902445	Score	412
Exons	1015..1306		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	50970	Seq. ID	OJ000329_06.0419.C35
Gene No.	108062	Strand	-
Start	1012	End	1306
Name	OJ000329_06.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	1063	End	1304
GI	none	Score	102
Exons	1063..1164, 1064..1165, 1144..1215, 1145..1216, 1215..1304		

Seq. No.	50971	Seq. ID	OJ000329_06.0419.C36
Gene No.	108063	Strand	-
Start	583	End	790
Name	OJ000329_06.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	580	End	790
GI	none	Score	93
Exons	580..651, 587..649, 642..776, 646..789, 654..788, 656..790, 659..790		

Seq. No.	50971	Seq. ID	OJ000329_06.0419.C36
Gene No.	108063	Strand	-
Start	583	End	790
Name	OJ000329_06.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	580	End	789
GI	none	Score	81
Exons	580..651, 587..667, 642..716, 654..788, 664..789		

Seq. No.	50971	Seq. ID	OJ000329_06.0419.C36
Gene No.	108063	Strand	-
Start	583	End	790
Name	OJ000329_06.0419.C36.o1.np	Method	AAT/NAP
Start	583	End	790
GI	7438038	Score	204
Exons	583..790		
GI Descrip.	argininosuccinate synthase (EC 6.3.4.5) - Arabidopsis thaliana gi 4678262 emb CAB41123.1 (AL049657) argininosuccinate synthase-like protein [Arabidopsis thaliana] gi 7269334 emb CAB79393.1 (AL161562) argininosuccinate synthase-like protein [Arabidopsis thaliana]		

Seq. No.	50971	Seq. ID	OJ000329_06.0419.C36
Gene No.	108063	Strand	-
Start	583	End	790
Name	OJ000329_06.0419.C36.o1.tc	Method	TBLASTX:Cress
Start	589	End	789
GI	none	Score	111
Exons	589..651, 654..788, 655..789		

Seq. No.	50972	Seq. ID	OJ000329_07.0419.C1
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Gene No.	108064	Strand	+
Start	67	End	452
Name	OJ000329_07.0419.C1.o1.gs	Method	GENSCAN
Start	67	End	452
GI	none	Score	.66
Exons	67..73, 340..452		

Seq. No.	50972	Seq. ID	OJ000329_07.0419.C1
Gene No.	108065	Strand	-
Start	1165	End	4729
Name	OJ000329_07.0419.C1.o1.np	Method	AAT/NAP
Start	1165	End	4729
GI	6069646	Score	957
Exons	1165..2146, 2429..3228, 4676..4729		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	50972	Seq. ID	OJ000329_07.0419.C1
Gene No.	108065	Strand	-
Start	1165	End	4729
Name	OJ000329_07.0419.C1.o5.tm	Method	TBLASTX:Maize
Start	1180	End	1737
GI	none	Score	76
Exons	1180..1374, 1432..1707, 1479..1724, 1544..1636, 1546..1737		

Seq. No.	50972	Seq. ID	OJ000329_07.0419.C1
Gene No.	108065	Strand	-
Start	1165	End	4729
Name	OJ000329_07.0419.C1.o2.tw	Method	TBLASTX:Wheat
Start	1291	End	1707
GI	none	Score	63
Exons	1291..1329, 1447..1641, 1496..1639, 1663..1707		

Seq. No.	50972	Seq. ID	OJ000329_07.0419.C1
Gene No.	108065	Strand	-
Start	1165	End	4729
Name	OJ000329_07.0419.C1.o4.tm	Method	TBLASTX:Maize
Start	1868	End	2150
GI	none	Score	101
Exons	1868..1963, 1970..2149, 1971..2150		

Seq. No.	50972	Seq. ID	OJ000329_07.0419.C1
Gene No.	108065	Strand	-
Start	1165	End	4729
Name	OJ000329_07.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	2070	End	2586
GI	none	Score	105
Exons	2070..2210, 2078..2176, 2207..2233, 2237..2398, 2518..2586		

Seq. No.	50972	Seq. ID	OJ000329_07.0419.C1
Gene No.	108065	Strand	-
Start	1165	End	4729
Name	OJ000329_07.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	2126	End	2568

GI	none	Score	69
Exons	2126..2251, 2130..2219, 2264..2476, 2277..2480, 2431..2568		

Seq. No.	50972	Seq. ID	OJ000329_07.0419.C1
Gene No.	108065	Strand	-
Start	1165	End	4729
Name	OJ000329_07.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	2201	End	2817
GI	none	Score	58
Exons	2201..2251, 2207..2488, 2208..2264, 2382..2477, 2473..2817		

Seq. No.	50972	Seq. ID	OJ000329_07.0419.C1
Gene No.	108065	Strand	-
Start	1165	End	4729
Name	OJ000329_07.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	2821	End	3247
GI	none	Score	96
Exons	2821..3237, 2822..3019, 2866..3069, 3095..3247		

Seq. No.	50972	Seq. ID	OJ000329_07.0419.C1
Gene No.	108065	Strand	-
Start	1165	End	4729
Name	OJ000329_07.0419.C1.o3.tw	Method	TBLASTX:Wheat
Start	2992	End	3198
GI	none	Score	177
Exons	2992..3198		

Seq. No.	50972	Seq. ID	OJ000329_07.0419.C1
Gene No.	108065	Strand	-
Start	1165	End	4729
Name	OJ000329_07.0419.C1.o3.tm	Method	TBLASTX:Maize
Start	3403	End	3847
GI	none	Score	62
Exons	3403..3519, 3501..3584, 3513..3581, 3567..3677, 3567..3677, 3569..3832, 3569..3847		

Seq. No.	50973	Seq. ID	OJ000329_07.0419.C2
Gene No.	108066	Strand	-
Start	278	End	2140
Name	OJ000329_07.0419.C2.o1.gs	Method	GENSCAN
Start	278	End	2140
GI	none	Score	.53
Exons	278..628, 701..2140		

Seq. No.	50974	Seq. ID	OJ000329_07.0419.C5
Gene No.	108067	Strand	-
Start	807	End	880
Name	OJ000329_07.0419.C5.o1.gs	Method	GENSCAN
Start	807	End	880
GI	none	Score	.9
Exons	807..880		

Seq. No.	50975	Seq. ID	OJ000329_07.0419.C8
Gene No.	108068	Strand	-
Start	1	End	2846
Name	OJ000329_07.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	2846

GI 4835756 Score 809
 Exons 1..172, 286..346, 511..657, 755..854, 1028..1140, 1629..1729, 1941..1979, 2066..2143, 2682..2846
 GI Descrip. (AC007202) Is a member of the PF|00044 glyceraldehyde 3-phosphate dehydrogenase family. ESTs gb|T43985, gb|N38667, gb|N65037, gb|AA713069 and gb|AI099548 come from this gene. [Arabidopsis thaliana]

Seq. No. 50975 Seq. ID OJ000329_07.0419.C8
 Gene No. 108068 Strand -
 Start 1 End 2846
 Name OJ000329_07.0419.C8.o2.ts Method TBLASTX:Soybean
 Start 39 End 349
 GI none Score 131
 Exons 39..59, 69..176, 76..174, 287..349, 287..349

Seq. No. 50975 Seq. ID OJ000329_07.0419.C8
 Gene No. 108068 Strand -
 Start 1 End 2846
 Name OJ000329_07.0419.C8.o1.tc Method TBLASTX:Cress
 Start 69 End 2127
 GI none Score 152
 Exons 69..176, 76..174, 287..349, 294..344, 508..660, 508..657, 509..661, 509..670, 755..856, 756..857, 1027..1140, 1028..1126, 1028..1147, 1627..1731, 1629..1736, 1630..1737, 1931..1978, 1939..1977, 2064..2126, 2074..2127

Seq. No. 50975 Seq. ID OJ000329_07.0419.C8
 Gene No. 108068 Strand -
 Start 1 End 2846
 Name OJ000329_07.0419.C8.o2.tw Method TBLASTX:Wheat
 Start 69 End 332
 GI none Score 72
 Exons 69..170, 69..176, 76..174, 287..331, 300..332

Seq. No. 50975 Seq. ID OJ000329_07.0419.C8
 Gene No. 108068 Strand -
 Start 1 End 2846
 Name OJ000329_07.0419.C8.o1.gs Method GENSCAN
 Start 224 End 2832
 GI none Score .91
 Exons 224..346, 511..657, 755..854, 1028..1140, 1629..1729, 1941..1979, 2066..2124, 2353..2414, 2617..2832

Seq. No. 50975 Seq. ID OJ000329_07.0419.C8
 Gene No. 108068 Strand -
 Start 1 End 2846
 Name OJ000329_07.0419.C8.o1.tm Method TBLASTX:Maize
 Start 282 End 1736
 GI none Score 86
 Exons 282..344, 284..349, 287..349, 508..657, 509..661, 509..658, 510..662, 510..659, 754..855, 755..856, 756..857, 1016..1129, 1027..1140, 1028..1147, 1029..1148, 1621..1731, 1628..1726, 1629..1736, 1630..1731

Seq. No. 50975 Seq. ID OJ000329_07.0419.C8
 Gene No. 108068 Strand -

Start	1	End	2846
Name	OJ000329_07.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	508	End	1724
GI	none	Score	145
Exons	508..657, 512..661, 755..865, 756..857, 1629..1724		

Seq. No.	50975	Seq. ID	OJ000329_07.0419.C8
Gene No.	108068	Strand	-
Start	1	End	2846
Name	OJ000329_07.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	577	End	1736
GI	none	Score	87
Exons	577..657, 584..658, 755..865, 765..860, 1048..1137, 1629..1736		

Seq. No.	50976	Seq. ID	OJ000329_07.0419.C10
Gene No.	108069	Strand	+
Start	1	End	865
Name	OJ000329_07.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	865
GI	4760370	Score	112
Exons	1..149, 767..865		
GI Descrip.	(AF082565) ATP dependent copper transporter [Arabidopsis thaliana] gi 4760380 gb AAD29115.1 (AF091112) ATP dependent copper transporter [Arabidopsis thaliana] gi 6850337 gb AAC79141.2 (AC002342) ATP dependent copper transporter (RAN1) [Arabidopsis thaliana]		

Seq. No.	50977	Seq. ID	OJ000329_07.0419.C12
Gene No.	108070	Strand	+
Start	28	End	2007
Name	OJ000329_07.0419.C12.o1.gs	Method	GENSCAN
Start	28	End	2007
GI	none	Score	.41
Exons	28..30, 552..683, 1758..1798, 1893..2007		

Seq. No.	50978	Seq. ID	OJ000329_07.0419.C13
Gene No.	108071	Strand	+
Start	71	End	184
Name	OJ000329_07.0419.C13.o1.gp	Method	AAT/GAP
Start	71	End	184
GI	uC-osflcyp142d10b1	Score	195
Exons	71..184		
GI Descrip.	'1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	50979	Seq. ID	OJ000329_07.0419.C17
Gene No.	108072	Strand	+
Start	1	End	57
Name	OJ000329_07.0419.C17.o1.gp	Method	AAT/GAP
Start	1	End	57
GI	LIB3477-003-P1-K1-E9	Score	95
Exons	1..57		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	50979	Seq. ID	OJ000329_07.0419.C17
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Gene No. 108073
 Start 118
 Name OJ000329_07.0419.C17.o2.gp
 Start 118
 GI 5004350
 Exons 118..558

Strand +
 End 558
 Method AAT/GAP
 End 558
 Score 867

Seq. No. 50979
 Gene No. 108074
 Start 486
 Name OJ000329_07.0419.C17.o1.gs
 Start 486
 GI none
 Exons 486..884, 1408..1548, 1644..1718, 4125..4289

Seq. ID OJ000329_07.0419.C17
 Strand -
 End 4330
 Method GENSCAN
 End 4289
 Score .86

Seq. No. 50979
 Gene No. 108074
 Start 486
 Name OJ000329_07.0419.C17.o1.np
 Start 489
 GI 4982519
 Exons 489..588, 661..808, 836..884, 1408..1548, 1644..1718, 4125..4330
 GI Descrip. (AC000107) F17F8.25 [Arabidopsis thaliana]

Seq. ID OJ000329_07.0419.C17
 Strand -
 End 4330
 Method AAT/NAP
 End 4330
 Score 487

Seq. No. 50979
 Gene No. 108074
 Start 486
 Name OJ000329_07.0419.C17.o2.ts
 Start 1405
 GI none
 Exons 1405..1554, 1409..1540

Seq. ID OJ000329_07.0419.C17
 Strand -
 End 4330
 Method TBLASTX:Soybean
 End 1554
 Score 140

Seq. No. 50979
 Gene No. 108074
 Start 486
 Name OJ000329_07.0419.C17.o3.gp
 Start 2857
 GI 94783_1.R1084
 Exons 2857..3275
 GI Descrip. '4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'

Seq. ID OJ000329_07.0419.C17
 Strand -
 End 4330
 Method AAT/GAP
 End 3275
 Score 759

Seq. No. 50979
 Gene No. 108074
 Start 486
 Name OJ000329_07.0419.C17.o1.ts
 Start 4122
 GI none
 Exons 4122..4286, 4144..4284

Seq. ID OJ000329_07.0419.C17
 Strand -
 End 4330
 Method TBLASTX:Soybean
 End 4286
 Score 118

Seq. No. 50980
 Gene No. 108075
 Start 830
 Name OJ000329_07.0419.C18.o1.gs
 Start 830
 GI none
 Exons 830..953, 1635..1661

Seq. ID OJ000329_07.0419.C18
 Strand +
 End 1661
 Method GENSCAN
 End 1661
 Score .53

Seq. No.	50981	Seq. ID	OJ000329_07.0419.C20
Gene No.	108076	Strand	+
Start	140	End	1424
Name	OJ000329_07.0419.C20.o1.np	Method	AAT/NAP
Start	140	End	1424
GI	7485016	Score	131
Exons	140..265, 900..1149, 1389..1424		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi 2244869 emb CAB10291.1 (Z97337) hypothetical protein [Arabidopsis thaliana] gi 7268258 emb CAB78554.1 (AL161540) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	50981	Seq. ID	OJ000329_07.0419.C20
Gene No.	108076	Strand	+
Start	140	End	1424
Name	OJ000329_07.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	739	End	1112
GI	none	Score	41
Exons	739..780, 890..1015, 891..1019, 962..1021, 963..1091, 1061..1111, 1062..1112		

Seq. No.	50982	Seq. ID	OJ000329_07.0419.C21
Gene No.	108077	Strand	+
Start	779	End	1487
Name	OJ000329_07.0419.C21.o1.gs	Method	GENSCAN
Start	779	End	1487
GI	none	Score	.87
Exons	779..853, 1335..1487		

Seq. No.	50982	Seq. ID	OJ000329_07.0419.C21
Gene No.	108078	Strand	+
Start	3028	End	3499
Name	OJ000329_07.0419.C21.o1.np	Method	AAT/NAP
Start	3028	End	3499
GI	7329661	Score	265
Exons	3028..3499		
GI Descrip.	(AL162351) putative protein [Arabidopsis thaliana]		

Seq. No.	50982	Seq. ID	OJ000329_07.0419.C21
Gene No.	108079	Strand	-
Start	2856	End	3523
Name	OJ000329_07.0419.C21.o2.gs	Method	GENSCAN
Start	2856	End	3523
GI	none	Score	.94
Exons	2856..3027, 3048..3523		

Seq. No.	50982	Seq. ID	OJ000329_07.0419.C21
Gene No.	108079	Strand	-
Start	2856	End	3523
Name	OJ000329_07.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	3229	End	3484
GI	none	Score	47
Exons	3229..3327, 3230..3304, 3328..3477, 3329..3484		

Seq. No.	50982	Seq. ID	OJ000329_07.0419.C21
Gene No.	108079	Strand	-

Start 2856
 Name OJ000329_07.0419.C21.o1.tc
 Start 3245
 GI none
 Exons 3245..3478, 3337..3462

End 3523
 Method TBLASTX:Cress
 End 3478
 Score 204

Seq. No. 50982
 Gene No. 108079
 Start 2856
 Name OJ000329_07.0419.C21.o1.ts
 Start 3251
 GI none
 Exons 3251..3466, 3259..3462

Seq. ID OJ000329_07.0419.C21
 Strand -
 End 3523
 Method TBLASTX:Soybean
 End 3466
 Score 209

Seq. No. 50983
 Gene No. 108080
 Start 45
 Name OJ000329_07.0419.C22.o1.tm
 Start 17
 GI none
 Exons 17..106, 42..101, 278..376, 280..354, 443..529, 444..530, 772..828, 773..829

Seq. ID OJ000329_07.0419.C22
 Strand -
 End 829
 Method TBLASTX:Maize
 End 829
 Score 67

Seq. No. 50983
 Gene No. 108080
 Start 45
 Name OJ000329_07.0419.C22.o1.gs
 Start 45
 GI none
 Exons 45..99, 278..367, 444..527

Seq. ID OJ000329_07.0419.C22
 Strand -
 End 829
 Method GENSCAN
 End 527
 Score .96

Seq. No. 50983
 Gene No. 108080
 Start 45
 Name OJ000329_07.0419.C22.o1.np
 Start 48
 GI 4835756
 Exons 48..99, 278..367, 444..527, 779..829
 GI Descrip. (AC007202) Is a member of the PF|00044 glyceraldehyde 3-phosphate dehydrogenase family. ESTs gb|T43985, gb|N38667, gb|N65037, gb|AA713069 and gb|AI099548 come from this gene. [Arabidopsis thaliana]

Seq. ID OJ000329_07.0419.C22
 Strand -
 End 829
 Method AAT/NAP
 End 829
 Score 304

Seq. No. 50983
 Gene No. 108080
 Start 45
 Name OJ000329_07.0419.C22.o1.tw
 Start 66
 GI none
 Exons 66..101, 278..370, 280..354, 443..529, 444..530, 772..825

Seq. ID OJ000329_07.0419.C22
 Strand -
 End 829
 Method TBLASTX:Wheat
 End 825
 Score 101

Seq. No. 50983
 Gene No. 108080
 Start 45
 Name OJ000329_07.0419.C22.o1.ts
 Start 234
 GI none

Seq. ID OJ000329_07.0419.C22
 Strand -
 End 829
 Method TBLASTX:Soybean
 End 825
 Score 91

Exons 234..356, 280..357, 280..354, 284..370, 443..529, 444..530, 778..825

Seq. No.	50983	Seq. ID	OJ000329_07.0419.C22
Gene No.	108080	Strand	-
Start	45	End	829
Name	OJ000329_07.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	278	End	825
GI	none	Score	98
Exons	278..370, 280..354, 443..529, 444..530, 778..825		

Seq. No.	50984	Seq. ID	OJ000329_07.0419.C26
Gene No.	108081	Strand	+
Start	722	End	1075
Name	OJ000329_07.0419.C26.o1.gs	Method	GENSCAN
Start	722	End	1075
GI	none	Score	.75
Exons	722..1075		

Seq. No.	50985	Seq. ID	OJ000329_07.0419.C27
Gene No.	108082	Strand	+
Start	1	End	1786
Name	OJ000329_07.0419.C27.o1.gp	Method	AAT/GAP
Start	1	End	454
GI	uC-osroM202006b06b1	Score	538
Exons	1..220, 392..454		
GI Descrip.	'4062935/dbj AB003495.1 AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	50985	Seq. ID	OJ000329_07.0419.C27
Gene No.	108082	Strand	+
Start	1	End	1786
Name	OJ000329_07.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	1786
GI	4760370	Score	1084
Exons	1..220, 392..717, 1241..1299, 1387..1786		
GI Descrip.	(AF082565) ATP dependent copper transporter [Arabidopsis thaliana] gi 4760380 gb AAD29115.1 (AF091112) ATP dependent copper transporter [Arabidopsis thaliana] gi 6850337 gb AAC79141.2 (AC002342) ATP dependent copper transporter (RAN1) [Arabidopsis thaliana]		

Seq. No.	50985	Seq. ID	OJ000329_07.0419.C27
Gene No.	108082	Strand	+
Start	1	End	1786
Name	OJ000329_07.0419.C27.o2.tm	Method	TBLASTX:Maize
Start	14	End	216
GI	none	Score	143
Exons	14..136, 14..211, 15..215, 16..216		

Seq. No.	50985	Seq. ID	OJ000329_07.0419.C27
Gene No.	108082	Strand	+
Start	1	End	1786
Name	OJ000329_07.0419.C27.o1.gs	Method	GENSCAN
Start	94	End	1728
GI	none	Score	.89
Exons	94..220, 392..717, 1241..1299, 1635..1728		

Seq. No.	50985	Seq. ID	OJ000329_07.0419.C27
Gene No.	108082	Strand	+
Start	1	End	1786
Name	OJ000329_07.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	120	End	605
GI	none	Score	127
Exons	120..221, 121..222, 380..541, 390..605, 393..602, 394..603		

Seq. No.	50985	Seq. ID	OJ000329_07.0419.C27
Gene No.	108082	Strand	+
Start	1	End	1786
Name	OJ000329_07.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	486	End	1733
GI	none	Score	343
Exons	486..725, 487..729, 1228..1299, 1229..1300, 1229..1300, 1249..1302, 1376..1687, 1379..1699, 1387..1698, 1573..1728, 1677..1733		

Seq. No.	50985	Seq. ID	OJ000329_07.0419.C27
Gene No.	108082	Strand	+
Start	1	End	1786
Name	OJ000329_07.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	508	End	1733
GI	none	Score	305
Exons	508..729, 513..725, 1228..1302, 1229..1300, 1376..1687, 1379..1513, 1447..1698, 1573..1728, 1686..1733		

Seq. No.	50985	Seq. ID	OJ000329_07.0419.C27
Gene No.	108082	Strand	+
Start	1	End	1786
Name	OJ000329_07.0419.C27.o2.tc	Method	TBLASTX:Cress
Start	607	End	1666
GI	none	Score	81
Exons	607..723, 1453..1665, 1493..1666		

Seq. No.	50986	Seq. ID	OJ000329_07.0419.C28
Gene No.	108083	Strand	-
Start	82	End	1864
Name	OJ000329_07.0419.C28.o1.gs	Method	GENSCAN
Start	82	End	1811
GI	none	Score	.71
Exons	82..186, 259..372, 511..711, 786..1124, 1158..1461, 1548..1811		

Seq. No.	50986	Seq. ID	OJ000329_07.0419.C28
Gene No.	108083	Strand	-
Start	82	End	1864
Name	OJ000329_07.0419.C28.o1.np	Method	AAT/NAP
Start	707	End	1449
GI	5902447	Score	873
Exons	707..975, 1012..1449		
GI Descrip.	(AB030283) orf4 [Oryza sativa]		

Seq. No.	50986	Seq. ID	OJ000329_07.0419.C28
Gene No.	108083	Strand	-
Start	82	End	1864
Name	OJ000329_07.0419.C28.o2.np	Method	AAT/NAP

Start	1539	End	1864
GI	5902448	Score	544
Exons	1539..1864		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	50987	Seq. ID	OJ000329_07.0419.C29
Gene No.	108084	Strand	-
Start	2744	End	2875
Name	OJ000329_07.0419.C29.o2.gs	Method	GENSCAN
Start	2744	End	2875
GI	none	Score	.91
Exons	2744..2875		

Seq. No.	50988	Seq. ID	OJ000329_07.0419.C30
Gene No.	108085	Strand	-
Start	650	End	762
Name	OJ000329_07.0419.C30.o1.gs	Method	GENSCAN
Start	650	End	762
GI	none	Score	.94
Exons	650..762		

Seq. No.	50989	Seq. ID	OJ000329_07.0419.C31
Gene No.	108086	Strand	-
Start	1	End	1723
Name	OJ000329_07.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	1723
GI	4760370	Score	174
Exons	1..140, 1410..1723		
GI Descrip.	(AF082565) ATP dependent copper transporter [Arabidopsis thaliana] gi 4760380 gb AAD29115.1 (AF091112) ATP dependent copper transporter [Arabidopsis thaliana] gi 6850337 gb AAC79141.2 (AC002342) ATP dependent copper transporter (RAN1) [Arabidopsis thaliana]		

Seq. No.	50990	Seq. ID	OJ000329_07.0419.C32
Gene No.	108087	Strand	-
Start	902	End	1093
Name	OJ000329_07.0419.C32.o1.gs	Method	GENSCAN
Start	902	End	1093
GI	none	Score	.45
Exons	902..1093		

Seq. No.	50991	Seq. ID	OJ000329_07.0419.C33
Gene No.	108088	Strand	+
Start	445	End	1088
Name	OJ000329_07.0419.C33.o1.gs	Method	GENSCAN
Start	445	End	1088
GI	none	Score	.44
Exons	445..502, 1023..1088		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108089	Strand	+
Start	13327	End	14283
Name	OJ000309_07.0419.C2.o3.gs	Method	GENSCAN
Start	13327	End	14283
GI	none	Score	.81
Exons	13327..13518, 14086..14283		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108090	Strand	-
Start	780	End	5805
Name	OJ000309_07.0419.C2.o1.np	Method	AAT/NAP
Start	780	End	4760
GI	6623973	Score	2532
Exons	780..3945, 3976..4760		
GI Descrip.	(AC007505) Highly similar to Tal-3 polyprotein [Arabidopsis thaliana]		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108090	Strand	-
Start	780	End	5805
Name	OJ000309_07.0419.C2.o2.np	Method	AAT/NAP
Start	783	End	5805
GI	6996255	Score	2351
Exons	783..4601, 4983..5084, 5740..5805		
GI Descrip.	(AL138657) copia-like polyprotein [Arabidopsis thaliana]		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108090	Strand	-
Start	780	End	5805
Name	OJ000309_07.0419.C2.o1.gp	Method	AAT/GAP
Start	1724	End	1966
GI	1621494	Score	438
Exons	1724..1966		
GI Descrip.	1621495/dbj BAA12903 4.0e-35 (D85877) reverse transcriptase [Oryza sativa]		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108090	Strand	-
Start	780	End	5805
Name	OJ000309_07.0419.C2.o2.gp	Method	AAT/GAP
Start	3010	End	3446
GI	2428449	Score	806
Exons	3010..3446		
GI Descrip.	4388818/gb AAD19773 3.0e-40 (AC006528) putative pol polyprotein with a Zn-finger CCHC type domain (prosite:QDOC50158) and a DDE integrase signature motif [Arabidopsis thaliana]		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108091	Strand	-
Start	6185	End	12866
Name	OJ000309_07.0419.C2.o2.gs	Method	GENSCAN
Start	6185	End	12866
GI	none	Score	.65
Exons	6185..6302, 7184..7488, 7581..7725, 10718..10791, 12010..12409, 12583..12866		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	792	End	1193
GI	none	Score	294
Exons	792..851, 823..1191, 837..1193		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o5.tw	Method	TBLASTX:Wheat
Start	841	End	1230
GI	none	Score	65
Exons	841..996, 855..995, 1014..1217, 1039..1230		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	855	End	1370
GI	none	Score	53
Exons	855..980, 996..1142, 1143..1247, 1242..1370		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	886	End	1169
GI	none	Score	174
Exons	886..1167, 894..1169		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	1249	End	1694
GI	none	Score	209
Exons	1249..1671, 1254..1559, 1536..1595, 1601..1693, 1602..1694		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	1344	End	1967
GI	none	Score	55
Exons	1344..1595, 1363..1527, 1598..1777, 1623..1721, 1814..1966, 1818..1967		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o3.tm	Method	TBLASTX:Maize
Start	1706	End	2128
GI	none	Score	135
Exons	1706..2125, 1830..2090, 2027..2128		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	1712	End	2101
GI	none	Score	85
Exons	1712..2101, 1750..2007, 1758..2081		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o2.tc	Method	TBLASTX:Cress
Start	1919	End	2125
GI	none	Score	74
Exons	1919..2125, 1919..2125		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	1967	End	2403
GI	none	Score	401
Exons	1967..2401, 1967..2401, 2215..2403		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o3.tc	Method	TBLASTX:Cress
Start	2475	End	3045
GI	none	Score	83
Exons	2475..2741, 2582..2740, 2756..2875, 2980..3045		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o3.ts	Method	TBLASTX:Soybean
Start	2615	End	3063
GI	none	Score	76
Exons	2615..2752, 2738..2869, 2865..2981, 2872..2979, 2978..3034, 2980..3063		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o3.tw	Method	TBLASTX:Wheat
Start	2678	End	3283
GI	none	Score	86
Exons	2678..2740, 2759..2830, 2865..2981, 2978..3283, 2980..3282		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o4.tm	Method	TBLASTX:Maize
Start	2865	End	3297
GI	none	Score	63
Exons	2865..2981, 2869..2979, 2980..3108, 2980..3297		

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o4.tw	Method	TBLASTX:Wheat
Start	3988	End	4354
GI	none	Score	54
Exons	3988..4059, 3988..4050, 4059..4154, 4062..4169, 4117..4179,		

4127..4168, 4171..4281, 4172..4264, 4177..4278, 4261..4353,
4271..4354

Seq. No.	50992	Seq. ID	OJ000309_07.0419.C2
Gene No.	108092	Strand	-
Start	16691	End	19047
Name	OJ000309_07.0419.C2.o4.gs	Method	GENSCAN
Start	16691	End	19047
GI	none	Score	.88
Exons	16691..17074, 17169..17318, 18227..18895, 18926..19047		

Seq. No.	50993	Seq. ID	OJ000309_07.0419.C3
Gene No.	108093	Strand	+
Start	173	End	627
Name	OJ000309_07.0419.C3.o1.np	Method	AAT/NAP
Start	173	End	627
GI	7480058	Score	52
Exons	173..255, 528..627		
GI Descrip.	hypothetical protein SCH35.41 - Streptomyces coelicolor gi 5019333 emb CAB44386.1 (AL078610) hypothetical protein [Streptomyces coelicolor A3(2)]		

Seq. No.	50993	Seq. ID	OJ000309_07.0419.C3
Gene No.	108094	Strand	-
Start	1544	End	1841
Name	OJ000309_07.0419.C3.o2.np	Method	AAT/NAP
Start	1544	End	1841
GI	5295955	Score	242
Exons	1544..1658, 1685..1841		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	50994	Seq. ID	OJ000309_07.0419.C4
Gene No.	108095	Strand	+
Start	817	End	2971
Name	OJ000309_07.0419.C4.o1.gs	Method	GENSCAN
Start	817	End	2971
GI	none	Score	.58
Exons	817..880, 1530..1566, 2227..2394, 2497..2550, 2599..2971		

Seq. No.	50994	Seq. ID	OJ000309_07.0419.C4
Gene No.	108096	Strand	-
Start	1	End	10794
Name	OJ000309_07.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	10794
GI	5295955	Score	367
Exons	1..189, 870..984, 1527..1596, 2522..2689, 6784..6919, 10197..10366, 10547..10794		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	50994	Seq. ID	OJ000309_07.0419.C4
Gene No.	108096	Strand	-
Start	1	End	10794
Name	OJ000309_07.0419.C4.o2.gs	Method	GENSCAN
Start	3868	End	5526
GI	none	Score	.42

Exons 3868..3988, 4249..4387, 5385..5526

Seq. No.	50994	Seq. ID	OJ000309_07.0419.C4
Gene No.	108096	Strand	-
Start	1	End	10794
Name	OJ000309_07.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	5083	End	5355
GI	none	Score	67
Exons	5083..5355, 5252..5353		

Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108097	Strand	+
Start	261	End	1916
Name	OJ000309_07.0419.C5.o1.gs	Method	GENSCAN
Start	261	End	1916
GI	none	Score	.7
Exons	261..485, 900..1002, 1795..1916		

Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108098	Strand	+
Start	5819	End	6240
Name	OJ000309_07.0419.C5.o3.gs	Method	GENSCAN
Start	5819	End	6240
GI	none	Score	.74
Exons	5819..5975, 6039..6154, 6160..6240		

Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108099	Strand	+
Start	12653	End	14334
Name	OJ000309_07.0419.C5.o5.np	Method	AAT/NAP
Start	12653	End	14334
GI	7489803	Score	765
Exons	12653..13534, 14272..14334		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi 3645899 gb AAC49502.1 (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108100	Strand	-
Start	1	End	5404
Name	OJ000309_07.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	3830
GI	5852181	Score	81
Exons	1..81, 674..874, 3804..3830		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108100	Strand	-
Start	1	End	5404
Name	OJ000309_07.0419.C5.o2.gs	Method	GENSCAN
Start	3122	End	5404
GI	none	Score	.8
Exons	3122..3396, 3450..3573, 3704..3752, 5244..5404		

Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108101	Strand	-
Start	6200	End	6888

Name	OJ000309_07.0419.C5.o2.np	Method	AAT/NAP
Start	6200	End	6888
GI	7228450	Score	172
Exons	6200..6322, 6412..6547, 6681..6888		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		
Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108102	Strand	-
Start	6970	End	12149
Name	OJ000309_07.0419.C5.o4.gs	Method	GENSCAN
Start	6970	End	10495
GI	none	Score	.71
Exons	6970..7068, 7113..7181, 7208..7404, 7472..7643, 8656..8775, 8799..8824, 9545..9713, 9750..9843, 10171..10231, 10486..10495		
Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108102	Strand	-
Start	6970	End	12149
Name	OJ000309_07.0419.C5.o3.np	Method	AAT/NAP
Start	8233	End	12149
GI	6721516	Score	634
Exons	8233..8306, 9513..9843, 10232..10473, 12108..12149		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		
Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108103	Strand	-
Start	12541	End	12994
Name	OJ000309_07.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	12541	End	12925
GI	none	Score	105
Exons	12541..12633, 12543..12635, 12662..12925, 12670..12738, 12796..12870		
Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108103	Strand	-
Start	12541	End	12994
Name	OJ000309_07.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	12677	End	12994
GI	none	Score	197
Exons	12677..12994, 12694..12909		
Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108104	Strand	-
Start	13057	End	13522
Name	OJ000309_07.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	13057	End	13399
GI	none	Score	444
Exons	13057..13398, 13058..13399		
Seq. No.	50995	Seq. ID	OJ000309_07.0419.C5
Gene No.	108104	Strand	-
Start	13057	End	13522
Name	OJ000309_07.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	13066	End	13522
GI	none	Score	227
Exons	13066..13296, 13067..13312, 13352..13522, 13352..13507		

Seq. No.	50996	Seq. ID	OJ000309_07.0419.C6
Gene No.	108105	Strand	-
Start	27	End	2263
Name	OJ000309_07.0419.C6.o1.gs	Method	GENSCAN
Start	27	End	2263
GI	none	Score	.58
Exons	27..328, 509..626, 1429..1806, 1981..2263		

Seq. No.	50997	Seq. ID	OJ000309_07.0419.C8
Gene No.	108106	Strand	-
Start	108	End	6317
Name	OJ000309_07.0419.C8.o1.gs	Method	GENSCAN
Start	108	End	6295
GI	none	Score	.63
Exons	108..222, 512..693, 817..1003, 1126..1208, 1347..1565, 4690..4803, 5450..6295		

Seq. No.	50997	Seq. ID	OJ000309_07.0419.C8
Gene No.	108106	Strand	-
Start	108	End	6317
Name	OJ000309_07.0419.C8.o1.gp	Method	AAT/GAP
Start	1744	End	2308
GI	4879016	Score	808
Exons	1744..2308		
GI Descrip.	6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	50997	Seq. ID	OJ000309_07.0419.C8
Gene No.	108106	Strand	-
Start	108	End	6317
Name	OJ000309_07.0419.C8.o1.np	Method	AAT/NAP
Start	5989	End	6317
GI	6979329	Score	88
Exons	5989..6317		
GI Descrip.	(AF172282) unknown protein [Oryza sativa]		

Seq. No.	50998	Seq. ID	OJ000309_07.0419.C9
Gene No.	108107	Strand	+
Start	3130	End	3261
Name	OJ000309_07.0419.C9.o1.gs	Method	GENSCAN
Start	3130	End	3261
GI	none	Score	.68
Exons	3130..3261		

Seq. No.	50998	Seq. ID	OJ000309_07.0419.C9
Gene No.	108108	Strand	+
Start	12468	End	12541
Name	OJ000309_07.0419.C9.o1.gp	Method	AAT/GAP
Start	12468	End	12541
GI	4715947	Score	64
Exons	12468..12541		
GI Descrip.	2252840 3.0e-09 (AF013293) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana] >gi_6049882_gb_AAF02797.1_AF195115_17 (AF195115) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana]		

Seq. No.	50998	Seq. ID	OJ000309_07.0419.C9
Gene No.	108109	Strand	-
Start	1365	End	1804
Name	OJ000309_07.0419.C9.o1.np	Method	AAT/NAP
Start	1365	End	1804
GI	6539570	Score	176
Exons	1365..1435, 1601..1804		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	50998	Seq. ID	OJ000309_07.0419.C9
Gene No.	108110	Strand	-
Start	1930	End	2008
Name	OJ000309_07.0419.C9.o2.np	Method	AAT/NAP
Start	1930	End	2008
GI	6630699	Score	71
Exons	1930..2008		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108111	Strand	+
Start	1280	End	8364
Name	OJ000309_07.0419.C10.o1.np	Method	AAT/NAP
Start	1280	End	2841
GI	7523388	Score	57
Exons	1280..1509, 2771..2841		
GI Descrip.	(AL138640) putative protein [Arabidopsis thaliana]		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108111	Strand	+
Start	1280	End	8364
Name	OJ000309_07.0419.C10.o1.gp	Method	AAT/GAP
Start	1974	End	2338
GI	3060999	Score	620
Exons	1974..2338		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108111	Strand	+
Start	1280	End	8364
Name	OJ000309_07.0419.C10.o2.np	Method	AAT/NAP
Start	1993	End	5485
GI	7269965	Score	506
Exons	1993..2363, 4948..5485		
GI Descrip.	(AL161577) putative protein [Arabidopsis thaliana]		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108111	Strand	+
Start	1280	End	8364
Name	OJ000309_07.0419.C10.o2.gs	Method	GENSCAN
Start	2125	End	8228
GI	none	Score	.88
Exons	2125..2363, 4948..5459, 6162..6256, 6384..6441, 7954..8228		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108111	Strand	+

Start	1280	End	8364
Name	OJ000309_07.0419.C10.o2.gp	Method	AAT/GAP
Start	5253	End	5766
GI	none	Score	954
Exons	5253..5766		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108111	Strand	+
Start	1280	End	8364
Name	OJ000309_07.0419.C10.o4.gp	Method	AAT/GAP
Start	7727	End	8364
GI	18794_1.R1084	Score	850
Exons	7727..7804, 7963..8364		
GI Descrip.	'4388818/gb AAD19773 3.0e-40 (AC006528) putative pol polyprotein with a Zn-finger CCHC type domain (prosite:QDOC50158) and a DDE integrase signature motif [Arabidopsis thaliana]'		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108111	Strand	+
Start	1280	End	8364
Name	OJ000309_07.0419.C10.o3.gp	Method	AAT/GAP
Start	7729	End	8364
GI	18794_1.R1084	Score	847
Exons	7729..7804, 7963..8364		
GI Descrip.	'4388818/gb AAD19773 3.0e-40 (AC006528) putative pol polyprotein with a Zn-finger CCHC type domain (prosite:QDOC50158) and a DDE integrase signature motif [Arabidopsis thaliana]'		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108112	Strand	+
Start	9863	End	10486
Name	OJ000309_07.0419.C10.o3.gs	Method	GENSCAN
Start	9863	End	10486
GI	none	Score	.99
Exons	9863..10001, 10155..10486		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108113	Strand	+
Start	15168	End	15630
Name	OJ000309_07.0419.C10.o6.gp	Method	AAT/GAP
Start	15168	End	15630
GI	3761737	Score	558
Exons	15168..15192, 15305..15630		
GI Descrip.	4099436/gb U87250 MVU87250 6.0e-22 Mustela vison GT dinucleotide repeat, chromosome 2,3,5 and 7 centromeric		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108114	Strand	-
Start	11732	End	15371
Name	OJ000309_07.0419.C10.o4.gs	Method	GENSCAN
Start	11732	End	15371
GI	none	Score	.5
Exons	11732..11828, 15250..15371		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
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Gene No.	108115	Strand	-
Start	17264	End	18479
Name	OJ000309_07.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	2002	End	2376
GI	none	Score	207
Exons	2002..2208, 2004..2147, 2214..2363, 2215..2376		
Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108115	Strand	-
Start	17264	End	18479
Name	OJ000309_07.0419.C10.o3.ts	Method	TBLASTX:Soybean
Start	2040	End	2363
GI	none	Score	107
Exons	2040..2144, 2041..2145, 2220..2363, 2221..2361		
Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108115	Strand	-
Start	17264	End	18479
Name	OJ000309_07.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	5002	End	5268
GI	none	Score	283
Exons	5002..5268, 5015..5263		
Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108115	Strand	-
Start	17264	End	18479
Name	OJ000309_07.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	5075	End	5521
GI	none	Score	76
Exons	5075..5146, 5146..5388, 5153..5389, 5461..5496, 5462..5521		
Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108115	Strand	-
Start	17264	End	18479
Name	OJ000309_07.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	5087	End	5563
GI	none	Score	480
Exons	5087..5461, 5091..5282, 5092..5460, 5140..5460, 5343..5459, 5462..5563, 5462..5536		
Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108115	Strand	-
Start	17264	End	18479
Name	OJ000309_07.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	5214	End	5527
GI	none	Score	110
Exons	5214..5372, 5215..5523, 5218..5523, 5219..5527, 5343..5525		
Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108115	Strand	-
Start	17264	End	18479
Name	OJ000309_07.0419.C10.o3.np	Method	AAT/NAP
Start	17264	End	18479
GI	5295937	Score	1390
Exons	17264..17861, 18231..18479		
GI Descrip.	(AB026295) hypothetical protein [Oryza sativa]		

Seq. No.	50999	Seq. ID	OJ000309_07.0419.C10
Gene No.	108115	Strand	-
Start	17264	End	18479
Name	OJ000309_07.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	17763	End	18395
GI	none	Score	150
Exons	17763..17849, 18201..18395, 18223..18354		

Seq. No.	51000	Seq. ID	OJ000309_07.0419.C11
Gene No.	108116	Strand	-
Start	3282	End	3715
Name	OJ000309_07.0419.C11.o1.gp	Method	AAT/GAP
Start	3282	End	3715
GI	94945_1.R1084	Score	683
Exons	3282..3715		
GI Descrip.	'4521194/dbj AB013613.1 AB013613 1.0e-132 Oryza sativa DNA, centromere sequence RCB11'		

Seq. No.	51000	Seq. ID	OJ000309_07.0419.C11
Gene No.	108117	Strand	-
Start	4279	End	4569
Name	OJ000309_07.0419.C11.o2.gs	Method	GENSCAN
Start	4279	End	4569
GI	none	Score	.43
Exons	4279..4569		

Seq. No.	51001	Seq. ID	OJ000309_07.0419.C14
Gene No.	108118	Strand	+
Start	102	End	748
Name	OJ000309_07.0419.C14.o1.gs	Method	GENSCAN
Start	102	End	748
GI	none	Score	.83
Exons	102..523, 607..748		

Seq. No.	51002	Seq. ID	OJ000309_07.0419.C15
Gene No.	108119	Strand	+
Start	3057	End	5678
Name	OJ000309_07.0419.C15.o1.np	Method	AAT/NAP
Start	3057	End	4471
GI	7258378	Score	133
Exons	3057..3190, 3363..3436, 4188..4471		
GI Descrip.	(AL138650) putative protein [Arabidopsis thaliana]		

Seq. No.	51002	Seq. ID	OJ000309_07.0419.C15
Gene No.	108119	Strand	+
Start	3057	End	5678
Name	OJ000309_07.0419.C15.o2.gs	Method	GENSCAN
Start	4162	End	5054
GI	none	Score	.76
Exons	4162..4905, 4980..5054		

Seq. No.	51002	Seq. ID	OJ000309_07.0419.C15
Gene No.	108119	Strand	+
Start	3057	End	5678
Name	OJ000309_07.0419.C15.o2.gp	Method	AAT/GAP
Start	4784	End	5678
GI	none	Score	773

Exons 4784..4905, 5394..5678

Seq. No.	51002	Seq. ID	OJ000309_07.0419.C15
Gene No.	108120	Strand	-
Start	6815	End	8506
Name	OJ000309_07.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	4282	End	4455
GI	none	Score	243
Exons	4282..4455, 4305..4454		

Seq. No.	51002	Seq. ID	OJ000309_07.0419.C15
Gene No.	108120	Strand	-
Start	6815	End	8506
Name	OJ000309_07.0419.C15.o3.gs	Method	GENSCAN
Start	6815	End	8506
GI	none	Score	.59
Exons	6815..6883, 8094..8214, 8300..8506		

Seq. No.	51003	Seq. ID	OJ000329_01.0419.C2
Gene No.	108121	Strand	-
Start	1	End	1168
Name	OJ000329_01.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	1147
GI	7487014	Score	449
Exons	1..77, 674..847, 944..1147		
GI Descrip.	hypothetical protein T14P8.5 - Arabidopsis thaliana gi 3193303 gb AAC19287.1 (AF069298) similar to several proteins containing a tandem repeat region such as Plasmodium falciparum GGM tandem repeat protein (GB:U27807); partial CDS [Arabidopsis thaliana] gi 7269005 emb CAB80738.1 (AL161494) putative protein [Arabidopsis thaliana]		

Seq. No.	51003	Seq. ID	OJ000329_01.0419.C2
Gene No.	108121	Strand	-
Start	1	End	1168
Name	OJ000329_01.0419.C2.o1.gs	Method	GENSCAN
Start	11	End	1130
GI	none	Score	.96
Exons	11..77, 182..216, 697..847, 944..1130		

Seq. No.	51003	Seq. ID	OJ000329_01.0419.C2
Gene No.	108121	Strand	-
Start	1	End	1168
Name	OJ000329_01.0419.C2.o1.gp	Method	AAT/GAP
Start	17	End	1131
GI	19260 1.R1084	Score	786
Exons	17..77, 182..216, 697..847, 944..1131		
GI Descrip.	'3193303 5.0e-31 (AF069298) similar to several proteins containing a tandem repeat region such as Plasmodium falciparum GGM tandem repeat protein (GB:U27807); partial CDS [Arabidopsis thaliana]'		

Seq. No.	51003	Seq. ID	OJ000329_01.0419.C2
Gene No.	108121	Strand	-
Start	1	End	1168
Name	OJ000329_01.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	182	End	1141

GI	none	Score	255
Exons	182..217, 694..849, 696..848, 740..853, 944..1006, 944..1018, 995..1141, 999..1133		

Seq. No.	51003	Seq. ID	OJ000329_01.0419.C2
Gene No.	108121	Strand	-
Start	1	End	1168
Name	OJ000329_01.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	694	End	1133
GI	none	Score	37
Exons	694..711, 694..747, 698..850, 714..848, 735..869, 740..853, 921..1112, 922..1113, 944..1132, 984..1133		

Seq. No.	51003	Seq. ID	OJ000329_01.0419.C2
Gene No.	108121	Strand	-
Start	1	End	1168
Name	OJ000329_01.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	700	End	1168
GI	none	Score	60
Exons	700..747, 701..757, 762..848, 764..853, 941..1132, 944..1168, 996..1142		

Seq. No.	51003	Seq. ID	OJ000329_01.0419.C2
Gene No.	108121	Strand	-
Start	1	End	1168
Name	OJ000329_01.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	700	End	1138
GI	none	Score	36
Exons	700..732, 740..853, 779..850, 918..1133, 944..1138		

Seq. No.	51004	Seq. ID	OJ000329_01.0419.C3
Gene No.	108122	Strand	+
Start	818	End	1858
Name	OJ000329_01.0419.C3.o1.gs	Method	GENSCAN
Start	818	End	1858
GI	none	Score	.48
Exons	818..984, 1384..1547, 1685..1858		

Seq. No.	51004	Seq. ID	OJ000329_01.0419.C3
Gene No.	108123	Strand	-
Start	5048	End	5222
Name	OJ000329_01.0419.C3.o2.gp	Method	AAT/GAP
Start	4814	End	5213
GI	29822_1.R1084	Score	750
Exons	4814..5213		
GI Descrip.	'4176420/dbj BAA37167 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	51004	Seq. ID	OJ000329_01.0419.C3
Gene No.	108123	Strand	-
Start	5048	End	5222
Name	OJ000329_01.0419.C3.o1.np	Method	AAT/NAP
Start	5031	End	5222
GI	5430760	Score	134
Exons	5031..5222		
GI Descrip.	(AC007504) Putative ribosomal protein [Arabidopsis thaliana]		

Seq. No. 51004
 Gene No. 108123
 Start 5048
 Name OJ000329_01.0419.C3.o2.gs
 Start 5048
 GI none
 Exons 5048..5209

Seq. ID OJ000329_01.0419.C3
 Strand -
 End 5222
 Method GENSCAN
 End 5209
 Score .75

Seq. No. 51005
 Gene No. 108124
 Start 1
 Name OJ000329_01.0419.C4.o1.np
 Start 1
 GI 7489095
 Exons 1..37, 517..682

Seq. ID OJ000329_01.0419.C4
 Strand -
 End 835
 Method AAT/NAP
 End 682
 Score 222

GI Descrip. ribosomal protein S17 - curled-leaved tobacco
 gi|1620986|emb|CAA70082.1| (Y08858) 40S ribosomal protein S17
 [Nicotiana plumbaginifolia]

Seq. No. 51005
 Gene No. 108124
 Start 1
 Name OJ000329_01.0419.C4.o1.tc
 Start 518
 GI none
 Exons 518..682, 519..683

Seq. ID OJ000329_01.0419.C4
 Strand -
 End 835
 Method TBLASTX:Cress
 End 683
 Score 207

Seq. No. 51005
 Gene No. 108124
 Start 1
 Name OJ000329_01.0419.C4.o1.tm
 Start 518
 GI none
 Exons 518..682, 519..683

Seq. ID OJ000329_01.0419.C4
 Strand -
 End 835
 Method TBLASTX:Maize
 End 683
 Score 253

Seq. No. 51005
 Gene No. 108124
 Start 1
 Name OJ000329_01.0419.C4.o1.ts
 Start 518
 GI none
 Exons 518..682, 519..683

Seq. ID OJ000329_01.0419.C4
 Strand -
 End 835
 Method TBLASTX:Soybean
 End 683
 Score 180

Seq. No. 51005
 Gene No. 108124
 Start 1
 Name OJ000329_01.0419.C4.o1.gp
 Start 521
 GI 29822_1.R1084
 Exons 521..835

Seq. ID OJ000329_01.0419.C4
 Strand -
 End 835
 Method AAT/GAP
 End 835
 Score 604

GI Descrip. '4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450
 [Arabidopsis thaliana]'

Seq. No. 51005
 Gene No. 108124
 Start 1
 Name OJ000329_01.0419.C4.o1.gs

Seq. ID OJ000329_01.0419.C4
 Strand -
 End 835
 Method GENSCAN

Start 521
GI none
Exons 521..682

End 682
Score .45

Seq. No. 51006
Gene No. 108125
Start 623
Name OJ000329_01.0419.C5.o1.gs
Start 623
GI none
Exons 623..692

Seq. ID OJ000329_01.0419.C5
Strand +
End 692
Method GENSCAN
End 692
Score .96

Seq. No. 51007
Gene No. 108126
Start 1
Name OJ000329_01.0419.C7.o1.np
Start 1
GI 4680204
Exons 1..431, 523..745
GI Descrip. (AF114171) hypothetical protein [Sorghum bicolor]

Seq. ID OJ000329_01.0419.C7
Strand +
End 745
Method AAT/NAP
End 745
Score 236

Seq. No. 51007
Gene No. 108126
Start 1
Name OJ000329_01.0419.C7.o1.tw
Start 20
GI none
Exons 20..76, 21..122, 144..305, 363..434, 517..735, 517..729

Seq. ID OJ000329_01.0419.C7
Strand +
End 745
Method TBLASTX:Wheat
End 735
Score 89

Seq. No. 51007
Gene No. 108126
Start 1
Name OJ000329_01.0419.C7.o1.gs
Start 69
GI none
Exons 69..431, 502..664

Seq. ID OJ000329_01.0419.C7
Strand +
End 745
Method GENSCAN
End 664
Score .53

Seq. No. 51008
Gene No. 108127
Start 243
Name OJ000329_01.0419.C8.o1.gs
Start 243
GI none
Exons 243..454, 842..917

Seq. ID OJ000329_01.0419.C8
Strand +
End 917
Method GENSCAN
End 917
Score .78

Seq. No. 51009
Gene No. 108128
Start 1
Name OJ000329_01.0419.C9.o1.np
Start 1
GI 6692743
Exons 1..236, 344..552
GI Descrip. (AC012679) putative calmodulin-binding protein [Arabidopsis thaliana]

Seq. ID OJ000329_01.0419.C9
Strand +
End 1156
Method AAT/NAP
End 552
Score 199

Seq. No. 51009
Gene No. 108128

Seq. ID OJ000329_01.0419.C9
Strand +

Start	1	End	1156
Name	OJ000329_01.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	59	End	526
GI	none	Score	142
Exons	59..220, 63..227, 343..417, 344..430, 413..526		

Seq. No.	51009	Seq. ID	OJ000329_01.0419.C9
Gene No.	108128	Strand	+
Start	1	End	1156
Name	OJ000329_01.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	59	End	430
GI	none	Score	173
Exons	59..223, 63..227, 66..227, 343..414, 344..430		

Seq. No.	51009	Seq. ID	OJ000329_01.0419.C9
Gene No.	108128	Strand	+
Start	1	End	1156
Name	OJ000329_01.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	59	End	430
GI	none	Score	148
Exons	59..223, 63..227, 344..430		

Seq. No.	51009	Seq. ID	OJ000329_01.0419.C9
Gene No.	108128	Strand	+
Start	1	End	1156
Name	OJ000329_01.0419.C9.o1.gs	Method	GENSCAN
Start	64	End	1156
GI	none	Score	.67
Exons	64..224, 338..526, 833..1156		

Seq. No.	51009	Seq. ID	OJ000329_01.0419.C9
Gene No.	108128	Strand	+
Start	1	End	1156
Name	OJ000329_01.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	80	End	490
GI	none	Score	144
Exons	80..220, 81..227, 332..463, 341..490		

Seq. No.	51010	Seq. ID	OJ000329_01.0419.C11
Gene No.	108129	Strand	+
Start	20	End	1041
Name	OJ000329_01.0419.C11.o1.gs	Method	GENSCAN
Start	20	End	1041
GI	none	Score	.68
Exons	20..133, 285..394, 496..568, 664..762, 862..1041		

Seq. No.	51010	Seq. ID	OJ000329_01.0419.C11
Gene No.	108130	Strand	+
Start	2118	End	2611
Name	OJ000329_01.0419.C11.o2.gp	Method	AAT/GAP
Start	2118	End	2611
GI	576771	Score	824
Exons	2118..2374, 2401..2611		
GI Descrip.	576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence		

Seq. No.	51010	Seq. ID	OJ000329_01.0419.C11
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Gene No. 108131
 Start 6874
 Name OJ000329_01.0419.C11.o3.gs
 Start 6874
 GI none
 Exons 6874..6936, 6970..7053

Strand +
 End 7053
 Method GENSCAN
 End 7053
 Score .85

Seq. No. 51010
 Gene No. 108132
 Start 7637
 Name OJ000329_01.0419.C11.o4.gs
 Start 7637
 GI none
 Exons 7637..8128, 8169..8474, 8594..8762, 8898..9292

Seq. ID OJ000329_01.0419.C11
 Strand +
 End 9292
 Method GENSCAN
 End 9292
 Score .56

Seq. No. 51010
 Gene No. 108133
 Start 13207
 Name OJ000329_01.0419.C11.o6.gs
 Start 13207
 GI none
 Exons 13207..13214, 13604..13958

Seq. ID OJ000329_01.0419.C11
 Strand +
 End 14160
 Method GENSCAN
 End 13958
 Score .91

Seq. No. 51010
 Gene No. 108133
 Start 13207
 Name OJ000329_01.0419.C11.o3.np
 Start 13783
 GI 6573719
 Exons 13783..14160
 GI Descrip. (AC009978) T23E18.18 [Arabidopsis thaliana]

Seq. ID OJ000329_01.0419.C11
 Strand +
 End 14160
 Method AAT/NAP
 End 14160
 Score 150

Seq. No. 51010
 Gene No. 108134
 Start 230
 Name OJ000329_01.0419.C11.o1.np
 Start 230
 GI 7514739
 Exons 230..383, 549..605, 1240..1326
 GI Descrip. D5L protein - variola minor virus (strain Garcia-1966)
 gi|885781|gb|AAA69395.1| (U18339) D4L [Variola virus]
 gi|1150673|emb|CAA50966.1| (X72086) ORF15L; B16L in citation [3]
 [Variola virus] gi|5830747|emb|CAB54786.1| (Y16780) D5L protein
 [variola minor virus]

Seq. ID OJ000329_01.0419.C11
 Strand -
 End 1326
 Method AAT/NAP
 End 1326
 Score 88

Seq. No. 51010
 Gene No. 108135
 Start 1240
 Name OJ000329_01.0419.C11.o1.gp
 Start 1240
 GI LIB3477-003-P1-K1-E9
 Exons 1240..1346
 GI Descrip. '2498586/sp|Q40638|MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY
 S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza
 sativa]'

Seq. ID OJ000329_01.0419.C11
 Strand -
 End 1346
 Method AAT/GAP
 End 1346
 Score 155

Seq. No. 51010

Seq. ID OJ000329_01.0419.C11

Gene No.	108136	Strand	-
Start	1996	End	5735
Name	OJ000329_01.0419.C11.o2.gs	Method	GENSCAN
Start	1996	End	5735
GI	none	Score	.68
Exons	1996..2063, 3289..3360, 3768..3904, 3986..4114, 4252..4303, 4437..4563, 5616..5735		

Seq. No.	51010	Seq. ID	OJ000329_01.0419.C11
Gene No.	108137	Strand	-
Start	10746	End	11222
Name	OJ000329_01.0419.C11.o5.gs	Method	GENSCAN
Start	10746	End	11222
GI	none	Score	.44
Exons	10746..11035, 11207..11222		

Seq. No.	51011	Seq. ID	OJ000329_01.0419.C12
Gene No.	108138	Strand	+
Start	1651	End	1719
Name	OJ000329_01.0419.C12.o2.gs	Method	GENSCAN
Start	1651	End	1719
GI	none	Score	.64
Exons	1651..1719		

Seq. No.	51011	Seq. ID	OJ000329_01.0419.C12
Gene No.	108139	Strand	-
Start	11	End	157
Name	OJ000329_01.0419.C12.o1.gs	Method	GENSCAN
Start	11	End	157
GI	none	Score	.68
Exons	11..157		

Seq. No.	51012	Seq. ID	OJ000329_01.0419.C13
Gene No.	108140	Strand	-
Start	10	End	1472
Name	OJ000329_01.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	8	End	1395
GI	none	Score	83
Exons	8..127, 37..123, 198..269, 199..270, 335..517, 355..543, 465..545, 1303..1395, 1304..1384		

Seq. No.	51012	Seq. ID	OJ000329_01.0419.C13
Gene No.	108140	Strand	-
Start	10	End	1472
Name	OJ000329_01.0419.C13.o1.np	Method	AAT/NAP
Start	10	End	1392
GI	5103807	Score	372
Exons	10..122, 209..268, 359..547, 1303..1392		
GI Descrip.	(AC007591) Contains similarity to gb AF014403 type-2 phosphatidic acid phosphatase alpha-2 (PAP2_a2) from Homo sapiens. ESTs gb T88254 and gb AA394650 come from this gene. [Arabidopsis thaliana]		

Seq. No.	51012	Seq. ID	OJ000329_01.0419.C13
Gene No.	108140	Strand	-
Start	10	End	1472
Name	OJ000329_01.0419.C13.o1.gs	Method	GENSCAN

Start	12	End	1472
GI	none	Score	.84
Exons	12..122, 209..268, 359..547, 1303..1396, 1448..1472		

Seq. No.	51012	Seq. ID	OJ000329_01.0419.C13
Gene No.	108140	Strand	-
Start	10	End	1472
Name	OJ000329_01.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	49	End	522
GI	none	Score	67
Exons	49..114, 177..269, 199..270, 336..518, 336..407, 337..522, 424..474, 465..521		

Seq. No.	51012	Seq. ID	OJ000329_01.0419.C13
Gene No.	108140	Strand	-
Start	10	End	1472
Name	OJ000329_01.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	198	End	516
GI	none	Score	69
Exons	198..269, 199..270, 348..476, 357..407, 358..516, 465..515		

Seq. No.	51013	Seq. ID	OJ000329_01.0419.C14
Gene No.	108141	Strand	-
Start	1237	End	1552
Name	OJ000329_01.0419.C14.o1.gs	Method	GENSCAN
Start	1237	End	1552
GI	none	Score	.98
Exons	1237..1244, 1414..1552		

Seq. No.	51014	Seq. ID	OJ000329_01.0419.C15
Gene No.	108142	Strand	-
Start	541	End	974
Name	OJ000329_01.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	540	End	974
GI	none	Score	129
Exons	540..626, 540..620, 541..630, 542..634, 542..631, 726..764, 727..852, 728..841, 906..974, 913..972, 924..974		

Seq. No.	51014	Seq. ID	OJ000329_01.0419.C15
Gene No.	108142	Strand	-
Start	541	End	974
Name	OJ000329_01.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	540	End	808
GI	none	Score	65
Exons	540..611, 542..610, 730..798, 730..807, 734..808		

Seq. No.	51014	Seq. ID	OJ000329_01.0419.C15
Gene No.	108142	Strand	-
Start	541	End	974
Name	OJ000329_01.0419.C15.o1.gp	Method	AAT/GAP
Start	541	End	974
GI	31736_1.R1084	Score	442
Exons	541..634, 727..836, 926..974		
GI Descrip.	'5103807/gb AAD39637.1 AC007591_2 1.0e-85 (AC007591) Contains similarity to gb_AF014403 type-2 phosphatidic acid phosphatase alpha-2 (PAP2_a2) from Homo sapiens. ESTs gb_T88254 and gb_AA394650 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	51014	Seq. ID	OJ000329_01.0419.C15
Gene No.	108142	Strand	-
Start	541	End	974
Name	OJ000329_01.0419.C15.o1.np	Method	AAT/NAP
Start	541	End	974
GI	5103807	Score	266
Exons	541..631, 724..836, 926..974		
GI Descrip.	(AC007591) Contains similarity to gb AF014403 type-2 phosphatidic acid phosphatase alpha-2 (PAP2_a2) from Homo sapiens. ESTs gb T88254 and gb AA394650 come from this gene. [Arabidopsis thaliana]		

Seq. No.	51015	Seq. ID	OJ000329_01.0419.C16
Gene No.	108143	Strand	-
Start	1221	End	1547
Name	OJ000329_01.0419.C16.o1.gp	Method	AAT/GAP
Start	1221	End	1547
GI	31736_1.R1084	Score	277
Exons	1221..1293, 1451..1547		
GI Descrip.	'5103807/gb AAD39637.1 AC007591_2 1.0e-85 (AC007591) Contains similarity to gb AF014403 type-2 phosphatidic acid phosphatase alpha-2 (PAP2_a2) from Homo sapiens. ESTs gb T88254 and gb AA394650 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	51016	Seq. ID	OJ000329_01.0419.C17
Gene No.	108144	Strand	-
Start	55	End	2938
Name	OJ000329_01.0419.C17.o4.tm	Method	TBLASTX:Maize
Start	42	End	255
GI	none	Score	125
Exons	42..206, 66..215, 67..222, 68..208, 180..242, 181..243, 185..244, 190..255, 212..253		

Seq. No.	51016	Seq. ID	OJ000329_01.0419.C17
Gene No.	108144	Strand	-
Start	55	End	2938
Name	OJ000329_01.0419.C17.o1.np	Method	AAT/NAP
Start	55	End	2091
GI	5103806	Score	623
Exons	55..236, 534..704, 819..914, 1283..1385, 1558..2091		
GI Descrip.	(AC007591) EST gb F14271 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	51016	Seq. ID	OJ000329_01.0419.C17
Gene No.	108144	Strand	-
Start	55	End	2938
Name	OJ000329_01.0419.C17.o1.gs	Method	GENSCAN
Start	66	End	2460
GI	none	Score	.84
Exons	66..236, 534..708, 823..923, 1283..1394, 1558..2091, 2422..2460		

Seq. No.	51016	Seq. ID	OJ000329_01.0419.C17
Gene No.	108144	Strand	-
Start	55	End	2938
Name	OJ000329_01.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	70	End	235

GI	none	Score	140
Exons	70..234, 71..235		
Seq. No.	51016	Seq. ID	OJ000329_01.0419.C17
Gene No.	108144	Strand	-
Start	55	End	2938
Name	OJ000329_01.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	508	End	915
GI	none	Score	236
Exons	508..705, 509..724, 795..866, 823..915, 827..913		
Seq. No.	51016	Seq. ID	OJ000329_01.0419.C17
Gene No.	108144	Strand	-
Start	55	End	2938
Name	OJ000329_01.0419.C17.o3.ts	Method	TBLASTX:Soybean
Start	535	End	879
GI	none	Score	94
Exons	535..702, 536..703, 823..879		
Seq. No.	51016	Seq. ID	OJ000329_01.0419.C17
Gene No.	108144	Strand	-
Start	55	End	2938
Name	OJ000329_01.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	1280	End	1800
GI	none	Score	43
Exons	1280..1324, 1280..1315, 1282..1320, 1309..1395, 1309..1359, 1314..1391, 1319..1408, 1555..1800, 1555..1800		
Seq. No.	51016	Seq. ID	OJ000329_01.0419.C17
Gene No.	108144	Strand	-
Start	55	End	2938
Name	OJ000329_01.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	2269	End	2919
GI	none	Score	53
Exons	2269..2334, 2272..2301, 2315..2509, 2316..2510, 2326..2514, 2507..2563, 2531..2563, 2532..2609, 2565..2615, 2566..2616, 2624..2662, 2625..2663, 2659..2712, 2669..2716, 2692..2919, 2707..2907		
Seq. No.	51016	Seq. ID	OJ000329_01.0419.C17
Gene No.	108144	Strand	-
Start	55	End	2938
Name	OJ000329_01.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	2269	End	2907
GI	none	Score	53
Exons	2269..2334, 2272..2301, 2315..2509, 2316..2510, 2507..2563, 2530..2565, 2565..2615, 2566..2616, 2613..2663, 2624..2674, 2648..2716, 2692..2907, 2707..2907		
Seq. No.	51016	Seq. ID	OJ000329_01.0419.C17
Gene No.	108144	Strand	-
Start	55	End	2938
Name	OJ000329_01.0419.C17.o3.tm	Method	TBLASTX:Maize
Start	2577	End	2938
GI	none	Score	58
Exons	2577..2615, 2583..2615, 2584..2616, 2610..2663, 2621..2659, 2647..2727, 2663..2716, 2707..2928, 2707..2928, 2717..2929,		

2720..2938, 2832..2933

Seq. No.	51017	Seq. ID	OJ000329_01.0419.C18
Gene No.	108145	Strand	-
Start	545	End	971
Name	OJ000329_01.0419.C18.o1.np	Method	AAT/NAP
Start	545	End	971
GI	5103806	Score	182
Exons	545..622, 708..971		
GI Descrip.	(AC007591) EST gb F14271 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	51018	Seq. ID	OJ000329_01.0419.C19
Gene No.	108146	Strand	+
Start	44	End	1278
Name	OJ000329_01.0419.C19.o1.gs	Method	GENSCAN
Start	44	End	1278
GI	none	Score	.94
Exons	44..55, 829..1278		

Seq. No.	51018	Seq. ID	OJ000329_01.0419.C19
Gene No.	108147	Strand	-
Start	115	End	3989
Name	OJ000329_01.0419.C19.o1.np	Method	AAT/NAP
Start	115	End	3989
GI	7228442	Score	912
Exons	115..142, 2282..3488, 3579..3989		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudra protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	51018	Seq. ID	OJ000329_01.0419.C19
Gene No.	108148	Strand	-
Start	5316	End	6929
Name	OJ000329_01.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	2264	End	2591
GI	none	Score	81
Exons	2264..2368, 2282..2374, 2283..2390, 2283..2402, 2347..2394, 2415..2591, 2443..2583		

Seq. No.	51018	Seq. ID	OJ000329_01.0419.C19
Gene No.	108148	Strand	-
Start	5316	End	6929
Name	OJ000329_01.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	2301	End	2883
GI	none	Score	44
Exons	2301..2381, 2353..2379, 2421..2729, 2425..2730, 2730..2882, 2761..2883		

Seq. No.	51018	Seq. ID	OJ000329_01.0419.C19
Gene No.	108148	Strand	-
Start	5316	End	6929
Name	OJ000329_01.0419.C19.o1.gp	Method	AAT/GAP
Start	5316	End	6929
GI	24105_1.R1084	Score	1063
Exons	5316..5801, 6736..6766, 6800..6929		
GI Descrip.	'576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SR1		

sucrose-regulated mRNA, 3''-end sequence'

Seq. No.	51019	Seq. ID	OJ000329_01.0419.C20
Gene No.	108149	Strand	+
Start	1017	End	1160
Name	OJ000329_01.0419.C20.o1.np	Method	AAT/NAP
Start	1017	End	1160
GI	6815099	Score	72
Exons	1017..1160		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108150	Strand	+
Start	1665	End	6499
Name	OJ000329_01.0419.C21.o1.np	Method	AAT/NAP
Start	1665	End	3468
GI	6498459	Score	66
Exons	1665..1977, 3347..3468		
GI Descrip.	(AP000816) hypothetical protein [Oryza sativa]		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108150	Strand	+
Start	1665	End	6499
Name	OJ000329_01.0419.C21.o2.np	Method	AAT/NAP
Start	1857	End	6475
GI	6692258	Score	759
Exons	1857..1982, 3583..3834, 4377..4842, 5082..5234, 5306..5428, 5534..5898, 6020..6312, 6401..6475		
GI Descrip.	(AC010870) unknown protein [Arabidopsis thaliana]		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108150	Strand	+
Start	1665	End	6499
Name	OJ000329_01.0419.C21.o2.gs	Method	GENSCAN
Start	3127	End	6499
GI	none	Score	.61
Exons	3127..3974, 4433..4842, 5082..5212, 5311..5658, 5742..5898, 6020..6312, 6401..6499		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108151	Strand	-
Start	1833	End	2735
Name	OJ000329_01.0419.C21.o1.gs	Method	GENSCAN
Start	1833	End	2735
GI	none	Score	.75
Exons	1833..1920, 2005..2255, 2686..2735		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108151	Strand	-
Start	1833	End	2735
Name	OJ000329_01.0419.C21.o1.gp	Method	AAT/GAP
Start	1875	End	2339
GI	2443172	Score	910
Exons	1875..2339		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108152	Strand	-

Start	7374	End	8072
Name	OJ000329_01.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	3283	End	4844
GI	none	Score	38
Exons	3283..3321, 3310..3420, 3312..3404, 3541..3618, 3691..3837, 3702..3839, 4376..4459, 4377..4457, 4587..4835, 4589..4840, 4598..4843, 4599..4844		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108152	Strand	-
Start	7374	End	8072
Name	OJ000329_01.0419.C21.o2.ts	Method	TBLASTX:Soybean
Start	5080	End	5385
GI	none	Score	147
Exons	5080..5199, 5081..5212, 5092..5217, 5305..5385, 5316..5384		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108152	Strand	-
Start	7374	End	8072
Name	OJ000329_01.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	5323	End	6306
GI	none	Score	125
Exons	5323..5490, 5751..5903, 6018..6110, 6019..6306, 6141..6281		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108152	Strand	-
Start	7374	End	8072
Name	OJ000329_01.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	5329	End	6306
GI	none	Score	72
Exons	5329..5415, 5799..5900, 6006..6278, 6007..6306		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108152	Strand	-
Start	7374	End	8072
Name	OJ000329_01.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	5748	End	6306
GI	none	Score	109
Exons	5748..5900, 6007..6306, 6018..6305		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108152	Strand	-
Start	7374	End	8072
Name	OJ000329_01.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	5751	End	6189
GI	none	Score	105
Exons	5751..5900, 5820..5897, 6007..6189, 6015..6188		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108152	Strand	-
Start	7374	End	8072
Name	OJ000329_01.0419.C21.o2.gp	Method	AAT/GAP
Start	6991	End	7523
GI	5039089	Score	1018
Exons	6991..7523		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
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Gene No.	108152	Strand	-
Start	7374	End	8072
Name	OJ000329_01.0419.C21.o3.gs	Method	GENSCAN
Start	7374	End	8012
GI	none	Score	.72
Exons	7374..7706, 7893..8012		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108152	Strand	-
Start	7374	End	8072
Name	OJ000329_01.0419.C21.o3.tm	Method	TBLASTX:Maize
Start	7438	End	8060
GI	none	Score	138
Exons	7438..7512, 7440..7514, 7500..7610, 7501..7611, 7891..7953, 7893..7970, 7893..8060		

Seq. No.	51020	Seq. ID	OJ000329_01.0419.C21
Gene No.	108152	Strand	-
Start	7374	End	8072
Name	OJ000329_01.0419.C21.o3.ts	Method	TBLASTX:Soybean
Start	7446	End	8072
GI	none	Score	174
Exons	7446..7613, 7450..7614, 7893..8072		

Seq. No.	51021	Seq. ID	OJ000329_01.0419.C22
Gene No.	108153	Strand	+
Start	1	End	419
Name	OJ000329_01.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	419
GI	6063554	Score	104
Exons	1..35, 246..419		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51021	Seq. ID	OJ000329_01.0419.C22
Gene No.	108154	Strand	+
Start	4724	End	5521
Name	OJ000329_01.0419.C22.o2.np	Method	AAT/NAP
Start	4724	End	5521
GI	4512231	Score	1357
Exons	4724..5521		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	51021	Seq. ID	OJ000329_01.0419.C22
Gene No.	108155	Strand	+
Start	5796	End	6658
Name	OJ000329_01.0419.C22.o3.np	Method	AAT/NAP
Start	5796	End	6658
GI	6983860	Score	1421
Exons	5796..6658		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	51021	Seq. ID	OJ000329_01.0419.C22
Gene No.	108155	Strand	+
Start	5796	End	6658

Name	OJ000329_01.0419.C22.o2.tw	Method	TBLASTX:Wheat
Start	5963	End	6161
GI	none	Score	213
Exons	5963..6160, 5964..6161, 5988..6161		

Seq. No.	51021	Seq. ID	OJ000329_01.0419.C22
Gene No.	108155	Strand	+
Start	5796	End	6658
Name	OJ000329_01.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	6213	End	6518
GI	none	Score	243
Exons	6213..6518		

Seq. No.	51021	Seq. ID	OJ000329_01.0419.C22
Gene No.	108155	Strand	+
Start	5796	End	6658
Name	OJ000329_01.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	6213	End	6563
GI	none	Score	318
Exons	6213..6563		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108156	Strand	+
Start	1	End	5621
Name	OJ000329_01.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	3280
GI	4680179	Score	4709
Exons	1..3280		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108156	Strand	+
Start	1	End	5621
Name	OJ000329_01.0419.C23.o1.gs	Method	GENSCAN
Start	54	End	4899
GI	none	Score	.47
Exons	54..1106, 1349..3288, 3796..4288, 4342..4519, 4802..4899		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108156	Strand	+
Start	1	End	5621
Name	OJ000329_01.0419.C23.o2.np	Method	AAT/NAP
Start	3485	End	5621
GI	6063554	Score	138
Exons	3485..3619, 3788..3831, 3882..3989, 4059..4224, 4309..4388, 5447..5621		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108157	Strand	-
Start	8218	End	10508
Name	OJ000329_01.0419.C23.o2.gs	Method	GENSCAN
Start	8218	End	10508
GI	none	Score	.8
Exons	8218..8267, 8879..8944, 10325..10508		

Seq. No. 51022
Gene No. 108158
Start 10863
Name OJ000329_01.0419.C23.o7.tw
Start 3
GI none
Exons 3..302

Seq. ID OJ000329_01.0419.C23
Strand -
End 11402
Method TBLASTX:Wheat
End 302
Score 203

Seq. No. 51022
Gene No. 108158
Start 10863
Name OJ000329_01.0419.C23.o6.tm
Start 315
GI none
Exons 315..506, 353..460

Seq. ID OJ000329_01.0419.C23
Strand -
End 11402
Method TBLASTX:Maize
End 506
Score 188

Seq. No. 51022
Gene No. 108158
Start 10863
Name OJ000329_01.0419.C23.o4.tw
Start 443
GI none
Exons 443..883, 444..926, 447..917

Seq. ID OJ000329_01.0419.C23
Strand -
End 11402
Method TBLASTX:Wheat
End 926
Score 535

Seq. No. 51022
Gene No. 108158
Start 10863
Name OJ000329_01.0419.C23.o4.ts
Start 480
GI none
Exons 480..794

Seq. ID OJ000329_01.0419.C23
Strand -
End 11402
Method TBLASTX:Soybean
End 794
Score 198

Seq. No. 51022
Gene No. 108158
Start 10863
Name OJ000329_01.0419.C23.o4.tm
Start 509
GI none
Exons 509..751, 513..956

Seq. ID OJ000329_01.0419.C23
Strand -
End 11402
Method TBLASTX:Maize
End 956
Score 373

Seq. No. 51022
Gene No. 108158
Start 10863
Name OJ000329_01.0419.C23.o1.ts
Start 867
GI none
Exons 867..899, 867..899, 903..956, 905..946, 906..1046, 1011..1103, 1019..1102, 1103..1261, 1111..1251

Seq. ID OJ000329_01.0419.C23
Strand -
End 11402
Method TBLASTX:Soybean
End 1261
Score 57

Seq. No. 51022
Gene No. 108158
Start 10863
Name OJ000329_01.0419.C23.o5.tm
Start 1011
GI none
Exons 1011..1103, 1103..1342, 1120..1341

Seq. ID OJ000329_01.0419.C23
Strand -
End 11402
Method TBLASTX:Maize
End 1342
Score 72

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o5.tw	Method	TBLASTX:Wheat
Start	1014	End	1273
GI	none	Score	134
Exons	1014..1103, 1016..1102, 1103..1273, 1109..1267, 1120..1272		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o3.tw	Method	TBLASTX:Wheat
Start	1277	End	1702
GI	none	Score	594
Exons	1277..1702, 1279..1341, 1353..1535, 1366..1695		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o3.ts	Method	TBLASTX:Soybean
Start	1283	End	1531
GI	none	Score	201
Exons	1283..1531		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	1349	End	1702
GI	none	Score	459
Exons	1349..1702, 1369..1695		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o2.tw	Method	TBLASTX:Wheat
Start	1730	End	2270
GI	none	Score	627
Exons	1730..2269, 1915..2265, 2022..2270		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	1967	End	2293
GI	none	Score	90
Exons	1967..2149, 2150..2293, 2152..2292		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o2.ts	Method	TBLASTX:Soybean
Start	2057	End	2317
GI	none	Score	301
Exons	2057..2317, 2068..2316		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o3.tm	Method	TBLASTX:Maize
Start	2115	End	2407
GI	none	Score	90
Exons	2115..2216, 2116..2403, 2117..2407		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	2276	End	2902
GI	none	Score	718
Exons	2276..2902, 2278..2784, 2842..2901		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	2455	End	3040
GI	none	Score	224
Exons	2455..2610, 2456..2617, 2614..2787, 2615..3040, 2842..3039		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o6.tw	Method	TBLASTX:Wheat
Start	2902	End	3235
GI	none	Score	313
Exons	2902..3183, 2903..3235		

Seq. No.	51022	Seq. ID	OJ000329_01.0419.C23
Gene No.	108158	Strand	-
Start	10863	End	11402
Name	OJ000329_01.0419.C23.o3.gs	Method	GENSCAN
Start	10863	End	11402
GI	none	Score	.96
Exons	10863..11402		

Seq. No.	51023	Seq. ID	OJ000329_01.0419.C25
Gene No.	108159	Strand	+
Start	173	End	1620
Name	OJ000329_01.0419.C25.o1.gs	Method	GENSCAN
Start	173	End	702
GI	none	Score	.6
Exons	173..249, 555..702		

Seq. No.	51023	Seq. ID	OJ000329_01.0419.C25
Gene No.	108159	Strand	+
Start	173	End	1620
Name	OJ000329_01.0419.C25.o1.np	Method	AAT/NAP
Start	445	End	1620
GI	5295951	Score	100
Exons	445..669, 1600..1620		
GI Descrip.	(AB026295) Similar to Herpesvirus papio BRRF2 homolog gene, partial cds.(U23857) [Oryza sativa]		

Seq. No.	51024	Seq. ID	OJ000329_02.0418.C1
Gene No.	108160	Strand	+
Start	3667	End	10315
Name	OJ000329_02.0418.C1.o2.gs	Method	GENSCAN
Start	3667	End	10298
GI	none	Score	.74
Exons	3667..3924, 4628..4840, 5420..5573, 5726..5782, 6406..6545, 6634..6890, 6928..7188, 7602..7704, 7855..7962, 8076..8159, 8265..8325, 8736..8881, 9343..9459, 9566..9651, 10211..10298		

Seq. No.	51024	Seq. ID	OJ000329_02.0418.C1
Gene No.	108160	Strand	+
Start	3667	End	10315
Name	OJ000329_02.0418.C1.o2.np	Method	AAT/NAP
Start	3667	End	10315
GI	5734621	Score	3245
Exons	3667..3924, 4628..4840, 5387..5573, 5726..5782, 6406..6545, 6634..6890, 6928..7188, 7602..7704, 7855..7962, 8076..8159, 8265..8325, 8736..8881, 9343..9459, 9566..9651, 10211..10315		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	51024	Seq. ID	OJ000329_02.0418.C1
Gene No.	108160	Strand	+
Start	3667	End	10315
Name	OJ000329_02.0418.C1.o1.gp	Method	AAT/GAP
Start	3775	End	5563
GI	99213_1.R1084	Score	1032
Exons	3775..3924, 4628..4840, 5387..5563		
GI Descrip.	'5734621/dbj BAA83352.1 5.0e-77 (AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]'		

Seq. No.	51024	Seq. ID	OJ000329_02.0418.C1
Gene No.	108161	Strand	-
Start	1	End	1634
Name	OJ000329_02.0418.C1.o1.np	Method	AAT/NAP
Start	1	End	1634
GI	6911869	Score	306
Exons	1..155, 500..591, 1282..1380, 1505..1634		
GI Descrip.	(AL138655) putative protein [Arabidopsis thaliana]		

Seq. No.	51024	Seq. ID	OJ000329_02.0418.C1
Gene No.	108162	Strand	
Start	7143	End	10315
Name	OJ000329_02.0418.C1.o1.tw	Method	TBLASTX:Wheat
Start	7143	End	8340
GI	none	Score	68
Exons	7143..7187, 7145..7186, 7591..7707, 7596..7718, 7819..7902, 7829..7876, 7854..7952, 7854..7970, 8072..8158, 8072..8158, 8073..8177, 8073..8159, 8262..8327, 8263..8340, 8264..8326		

Seq. No.	51024	Seq. ID	OJ000329_02.0418.C1
Gene No.	108162	Strand	

Start	7143	End	10315
Name	OJ000329_02.0418.C1.o1.ts	Method	TBLASTX:Soybean
Start	7632	End	10315
GI	none	Score	87
Exons	7632..7700, 7633..7701, 7633..7701, 7845..7976, 7852..7962, 8072..8158, 8073..8177, 8073..8174, 8262..8324, 8264..8326, 8733..8834, 8736..8894, 8737..8907, 8738..8887, 9326..9460, 9332..9460, 9342..9467, 9342..9461, 9548..9649, 9550..9648, 10194..10277, 10220..10276, 10265..10315, 10276..10299		

Seq. No.	51024	Seq. ID	OJ000329_02.0418.C1
Gene No.	108162	Strand	
Start	7143	End	10315
Name	OJ000329_02.0418.C1.o2.tm	Method	TBLASTX:Maize
Start	8077	End	8838
GI	none	Score	131
Exons	8077..8157, 8078..8158, 8079..8177, 8079..8168, 8262..8327, 8264..8320, 8735..8836, 8738..8836, 8739..8837, 8740..8838		

Seq. No.	51024	Seq. ID	OJ000329_02.0418.C1
Gene No.	108162	Strand	
Start	7143	End	10315
Name	OJ000329_02.0418.C1.o1.tm	Method	TBLASTX:Maize
Start	8839	End	10277
GI	none	Score	73
Exons	8839..8886, 8840..8887, 9335..9460, 9342..9464, 9342..9464, 9347..9472, 9548..9652, 9551..9658, 9552..9659, 10037..10105, 10200..10274, 10201..10272, 10205..10273, 10211..10276, 10212..10277		

Seq. No.	51025	Seq. ID	OJ000329_02.0418.C2
Gene No.	108163	Strand	+
Start	1	End	1334
Name	OJ000329_02.0418.C2.o1.np	Method	AAT/NAP
Start	1	End	1334
GI	5734621	Score	454
Exons	1..22, 260..325, 459..539, 804..869, 997..1089, 1190..1334		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	51025	Seq. ID	OJ000329_02.0418.C2
Gene No.	108163	Strand	+
Start	1	End	1334
Name	OJ000329_02.0418.C2.o1.gp	Method	AAT/GAP
Start	270	End	1254
GI	LIB3433-040-P1-K1-C8	Score	604
Exons	270..325, 459..539, 804..869, 997..1089, 1190..1254		
GI Descrip.	'5734621/dbj BAA83352.1 2.0e-80 (AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]'		

Seq. No.	51025	Seq. ID	OJ000329_02.0418.C2
Gene No.	108163	Strand	+
Start	1	End	1334
Name	OJ000329_02.0418.C2.o1.gs	Method	GENSCAN

Start	459	End	1258
GI	none	Score	.87
Exons	459..539, 804..869, 997..1089, 1190..1258		

Seq. No.	51026	Seq. ID	OJ000329_02.0418.C3
Gene No.	108164	Strand	+
Start	1	End	788
Name	OJ000329_02.0418.C3.o1.gp	Method	AAT/GAP
Start	1	End	295
GI	53395 1.R1084	Score	586
Exons	1..295		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	51026	Seq. ID	OJ000329_02.0418.C3
Gene No.	108164	Strand	+
Start	1	End	788
Name	OJ000329_02.0418.C3.o1.np	Method	AAT/NAP
Start	1	End	788
GI	5734620	Score	594
Exons	1..305, 417..502, 667..788		
GI Descrip.	(AP000391) ESTs AU077435(C12539),C26534(C12539) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51026	Seq. ID	OJ000329_02.0418.C3
Gene No.	108164	Strand	+
Start	1	End	788
Name	OJ000329_02.0418.C3.o1.ts	Method	TBLASTX:Soybean
Start	3	End	297
GI	none	Score	70
Exons	3..74, 37..297, 42..296		

Seq. No.	51026	Seq. ID	OJ000329_02.0418.C3
Gene No.	108164	Strand	+
Start	1	End	788
Name	OJ000329_02.0418.C3.o1.tc	Method	TBLASTX:Cress
Start	37	End	504
GI	none	Score	407
Exons	37..306, 39..320, 415..504		

Seq. No.	51026	Seq. ID	OJ000329_02.0418.C3
Gene No.	108164	Strand	+
Start	1	End	788
Name	OJ000329_02.0418.C3.o1.gs	Method	GENSCAN
Start	49	End	502
GI	none	Score	.96
Exons	49..305, 417..502		

Seq. No.	51026	Seq. ID	OJ000329_02.0418.C3
Gene No.	108164	Strand	+
Start	1	End	788
Name	OJ000329_02.0418.C3.o1.tm	Method	TBLASTX:Maize
Start	81	End	507
GI	none	Score	352
Exons	81..320, 82..306, 415..504, 424..507		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108165	Strand	+
Start	20	End	9525
Name	OJ000329_02.0418.C9.o1.np	Method	AAT/NAP
Start	20	End	1269
GI	6983876	Score	759
Exons	20..286, 384..458, 577..657, 749..823, 912..1085, 1186..1269		
GI Descrip.	(AP001168) ESTs AU064537(E31904),AU082147(E31904) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana chromosome II BAC F4I18 genomic sequence; unknown protein. (AC004665) [Oryza sativa]		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108165	Strand	+
Start	20	End	9525
Name	OJ000329_02.0418.C9.o1.gp	Method	AAT/GAP
Start	232	End	1513
GI	12948 1.R1084	Score	1428
Exons	232..286, 384..458, 577..657, 749..823, 912..1085, 1188..1513		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 5.0e-95 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108165	Strand	+
Start	20	End	9525
Name	OJ000329_02.0418.C9.o1.gs	Method	GENSCAN
Start	749	End	9525
GI	none	Score	.81
Exons	749..823, 912..1085, 3166..3468, 3542..3698, 5414..5608, 5614..5736, 7132..7179, 8858..9525		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108165	Strand	+
Start	20	End	9525
Name	OJ000329_02.0418.C9.o2.gp	Method	AAT/GAP
Start	5181	End	5355
GI	LIB3433-026-P1-K1-C1	Score	233
Exons	5181..5355		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-44 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108165	Strand	+
Start	20	End	9525
Name	OJ000329_02.0418.C9.o2.np	Method	AAT/NAP
Start	8881	End	9522
GI	6983877	Score	1140
Exons	8881..9522		
GI Descrip.	(AP001168) Similar to mRNA for DREB1A (AB007787) [Oryza sativa]		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108166	Strand	-
Start	10307	End	11698
Name	OJ000329_02.0418.C9.o1.tm	Method	TBLASTX:Maize
Start	232	End	1088
GI	none	Score	91
Exons	232..285, 233..286, 381..458, 383..457, 574..660, 576..674,		

576..665, 750..818, 751..822, 906..1088, 911..1081

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108166	Strand	-
Start	10307	End	11698
Name	OJ000329_02.0418.C9.o1.ts	Method	TBLASTX:Soybean
Start	232	End	1214
GI	none	Score	69
Exons	232..285, 233..286, 381..458, 383..451, 574..660, 906..1088, 914..1084, 963..1091, 1185..1214, 1187..1213		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108166	Strand	-
Start	10307	End	11698
Name	OJ000329_02.0418.C9.o3.tc	Method	TBLASTX:Cress
Start	232	End	660
GI	none	Score	76
Exons	232..285, 233..286, 381..458, 383..460, 574..660		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108166	Strand	-
Start	10307	End	11698
Name	OJ000329_02.0418.C9.o1.tw	Method	TBLASTX:Wheat
Start	232	End	953
GI	none	Score	85
Exons	232..285, 233..286, 233..286, 381..458, 382..456, 383..457, 574..660, 574..657, 576..665, 703..840, 750..818, 906..953, 911..952		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108166	Strand	-
Start	10307	End	11698
Name	OJ000329_02.0418.C9.o2.tc	Method	TBLASTX:Cress
Start	909	End	1092
GI	none	Score	244
Exons	909..1088, 910..1092, 911..1087		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108166	Strand	-
Start	10307	End	11698
Name	OJ000329_02.0418.C9.o2.tw	Method	TBLASTX:Wheat
Start	956	End	1306
GI	none	Score	115
Exons	956..1081, 957..1088, 959..1081, 1185..1220, 1185..1247, 1186..1245, 1187..1306		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108166	Strand	-
Start	10307	End	11698
Name	OJ000329_02.0418.C9.o2.tm	Method	TBLASTX:Maize
Start	8899	End	9072
GI	none	Score	308
Exons	8899..9072, 8913..9059		

Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108166	Strand	-
Start	10307	End	11698

Name	OJ000329_02.0418.C9.o2.ts	Method	TBLASTX:Soybean
Start	8899	End	9195
GI	none	Score	114
Exons	8899..9000, 8919..8996, 8995..9195, 9015..9059, 9138..9176		
Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108166	Strand	-
Start	10307	End	11698
Name	OJ000329_02.0418.C9.o1.tc	Method	TBLASTX:Cress
Start	8911	End	9195
GI	none	Score	129
Exons	8911..9000, 8928..8996, 8994..9059, 8995..9195, 9141..9173		
Seq. No.	51027	Seq. ID	OJ000329_02.0418.C9
Gene No.	108166	Strand	-
Start	10307	End	11698
Name	OJ000329_02.0418.C9.o2.gs	Method	GENSCAN
Start	10307	End	11698
GI	none	Score	.62
Exons	10307..10320, 10715..10843, 11638..11698		
Seq. No.	51028	Seq. ID	OJ000329_02.0418.C10
Gene No.	108167	Strand	-
Start	793	End	2948
Name	OJ000329_02.0418.C10.o1.gs	Method	GENSCAN
Start	793	End	2945
GI	none	Score	.91
Exons	793..934, 1069..1161, 1261..1364, 1977..2222, 2344..2415, 2889..2945		
Seq. No.	51028	Seq. ID	OJ000329_02.0418.C10
Gene No.	108167	Strand	-
Start	793	End	2948
Name	OJ000329_02.0418.C10.o1.tm	Method	TBLASTX:Maize
Start	2052	End	2948
GI	none	Score	162
Exons	2052..2225, 2053..2223, 2054..2224, 2055..2237, 2059..2226, 2333..2413, 2333..2380, 2343..2414, 2344..2415, 2344..2421, 2884..2946, 2886..2948, 2887..2946, 2888..2947		
Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108168	Strand	+
Start	3198	End	4007
Name	OJ000329_02.0418.C11.o1.gp	Method	AAT/GAP
Start	3198	End	4007
GI	none	Score	1541
Exons	3198..4007		
Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o1.gs	Method	GENSCAN
Start	473	End	6699
GI	none	Score	.77
Exons	473..479, 1905..1984, 2085..2190, 2262..2436, 2525..2621, 2701..2860, 3512..4100, 4686..4982, 5070..5662, 5725..5760, 6086..6226, 6445..6482, 6628..6699		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o2.ts	Method	TBLASTX:Soybean
Start	2085	End	2742
GI	none	Score	89
Exons	2085..2189, 2258..2434, 2352..2435, 2580..2624, 2701..2742		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o2.tc	Method	TBLASTX:Cress
Start	2133	End	2736
GI	none	Score	38
Exons	2133..2189, 2149..2190, 2258..2425, 2258..2437, 2358..2441, 2586..2624, 2698..2736		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o1.np	Method	AAT/NAP
Start	2258	End	2772
GI	6983878	Score	527
Exons	2258..2436, 2525..2621, 2701..2772		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o3.tm	Method	TBLASTX:Maize
Start	2327	End	2737
GI	none	Score	135
Exons	2327..2434, 2352..2435, 2397..2438, 2401..2508, 2551..2619, 2553..2624, 2701..2736, 2702..2737		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o2.tm	Method	TBLASTX:Maize
Start	3448	End	4101
GI	none	Score	90
Exons	3448..3525, 3449..3538, 3484..3594, 3527..3619, 3529..3615, 3733..3798, 3755..3799, 3823..3897, 3824..3898, 3898..3915, 3917..4063, 3919..4065, 4072..4101		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o2.np	Method	AAT/NAP
Start	3454	End	6699
GI	6983879	Score	2951
Exons	3454..4100, 4686..4982, 5070..5662, 5944..6090, 6623..6699		
GI Descrip.	(AP001168) ESTs AU030197(E50746),AU030196(E50746) correspond to a region of the predicted gene.; Similar to calcium-dependent calmodulin-independent protein kinase CDPK (U90262) [Oryza sativa]		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o1.ts	Method	TBLASTX:Soybean
Start	4657	End	5610
GI	none	Score	40
Exons	4657..4983, 4691..4783, 4835..4999, 5068..5610, 5069..5242, 5299..5571		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o1.tc	Method	TBLASTX:Cress
Start	4669	End	5595
GI	none	Score	106
Exons	4669..4953, 4674..4850, 4687..4965, 4691..4975, 5071..5595, 5089..5190, 5093..5242, 5288..5371, 5435..5542		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o1.tm	Method	TBLASTX:Maize
Start	4669	End	5536
GI	none	Score	69
Exons	4669..4947, 4687..4983, 4844..5002, 5068..5535, 5082..5189, 5089..5205, 5090..5242, 5288..5371, 5299..5520, 5435..5536		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o1.tw	Method	TBLASTX:Wheat
Start	4687	End	5121
GI	none	Score	59
Exons	4687..4983, 4688..4783, 4835..4903, 4928..4984, 5068..5121		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o2.tw	Method	TBLASTX:Wheat
Start	5128	End	5400
GI	none	Score	75
Exons	5128..5400, 5129..5233, 5288..5380, 5299..5391		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699
Name	OJ000329_02.0418.C11.o2.gp	Method	AAT/GAP
Start	5145	End	5593
GI	uC-osflM202066e05b1	Score	878
Exons	5145..5593		
GI Descrip.	'3320104/emb CAA07481 3.0e-39 (AJ007366) calcium-dependent protein kinase [Zea mays]'		

Seq. No.	51029	Seq. ID	OJ000329_02.0418.C11
Gene No.	108169	Strand	-
Start	473	End	6699

Name	OJ000329_02.0418.C11.o3.gp	Method	AAT/GAP
Start	5829	End	6280
GI	none	Score	801
Exons	5829..6280		
Seq. No.	51030	Seq. ID	OJ000329_02.0418.C12
Gene No.	108170	Strand	-
Start	1126	End	1317
Name	OJ000329_02.0418.C12.o1.gs	Method	GENSCAN
Start	1126	End	1317
GI	none	Score	.41
Exons	1126..1317		
Seq. No.	51031	Seq. ID	OJ000329_02.0418.C13
Gene No.	108171	Strand	+
Start	616	End	1644
Name	OJ000329_02.0418.C13.o1.gs	Method	GENSCAN
Start	616	End	1644
GI	none	Score	.55
Exons	616..771, 1155..1225, 1526..1644		
Seq. No.	51032	Seq. ID	OJ000329_02.0418.C14
Gene No.	108172	Strand	+
Start	1	End	1027
Name	OJ000329_02.0418.C14.o1.np	Method	AAT/NAP
Start	1	End	1027
GI	5852093	Score	49
Exons	1..21, 917..1027		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		
Seq. No.	51032	Seq. ID	OJ000329_02.0418.C14
Gene No.	108173	Strand	+
Start	1360	End	3014
Name	OJ000329_02.0418.C14.o1.gp	Method	AAT/GAP
Start	1360	End	1774
GI	none	Score	444
Exons	1360..1632, 1721..1774		
Seq. No.	51032	Seq. ID	OJ000329_02.0418.C14
Gene No.	108173	Strand	+
Start	1360	End	3014
Name	OJ000329_02.0418.C14.o1.gs	Method	GENSCAN
Start	1447	End	3012
GI	none	Score	.88
Exons	1447..1624, 2215..2336, 2424..2571, 2788..2849, 2931..3012		
Seq. No.	51032	Seq. ID	OJ000329_02.0418.C14
Gene No.	108173	Strand	+
Start	1360	End	3014
Name	OJ000329_02.0418.C14.o1.tm	Method	TBLASTX:Maize
Start	2231	End	3014
GI	none	Score	92
Exons	2231..2335, 2232..2339, 2487..2588, 2570..2668, 2571..2690, 2571..2660, 2789..2848, 2789..2815, 2790..2849, 2800..2868, 2927..2959, 2927..3013, 2931..3014		
Seq. No.	51032	Seq. ID	OJ000329_02.0418.C14

Gene No.	108173	Strand	+
Start	1360	End	3014
Name	OJ000329_02.0418.C14.o1.ts	Method	TBLASTX:Soybean
Start	2592	End	2999
GI	none	Score	100
Exons	2592..2675, 2790..2849, 2934..2999		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108174	Strand	+
Start	343	End	7312
Name	OJ000329_02.0418.C15.o1.gs	Method	GENSCAN
Start	343	End	7312
GI	none	Score	.76
Exons	343..450, 549..681, 2423..2883, 2970..3067, 4337..4906, 4953..5241, 5323..5505, 5890..6044, 6936..7086, 7190..7312		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108174	Strand	+
Start	343	End	7312
Name	OJ000329_02.0418.C15.o1.np	Method	AAT/NAP
Start	561	End	6240
GI	6983880	Score	3912
Exons	561..681, 2423..2883, 2970..3067, 4337..4906, 4986..5241, 5323..5505, 5623..6240		
GI Descrip.	(AP001168) Similar to Arabidopsis thaliana BAC T12H20; isp4-like protein (AF080119) [Oryza sativa]		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108175	Strand	+
Start	10691	End	14561
Name	OJ000329_02.0418.C15.o3.gs	Method	GENSCAN
Start	10691	End	14408
GI	none	Score	.6
Exons	10691..11012, 13018..14408		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108175	Strand	+
Start	10691	End	14561
Name	OJ000329_02.0418.C15.o2.gp	Method	AAT/GAP
Start	13306	End	13792
GI	55172_1.R1084	Score	938
Exons	13306..13792		
GI Descrip.	'1710401/sp P49730 RIR2_TOBAC 3.0e-50 RIBONUCLEOSIDE-DIPHOSPHATE REDUCTASE SMALL CHAIN (RIBONUCLEOTIDE REDUCTASE) (R2 SUBUNIT) >gi_1044912_emb_CAA63194_ (X92443) ribonucleotide reductase R2 [Nicotiana tabacum]'		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108175	Strand	+
Start	10691	End	14561
Name	OJ000329_02.0418.C15.o3.np	Method	AAT/NAP
Start	13413	End	14405
GI	1710401	Score	1372
Exons	13413..14405		
GI Descrip.	RIBONUCLEOSIDE-DIPHOSPHATE REDUCTASE SMALL CHAIN (RIBONUCLEOTIDE REDUCTASE) (R2 SUBUNIT) gi 1044912 emb CAA63194 (X92443) ribonucleotide reductase R2 [Nicotiana tabacum]		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108175	Strand	+
Start	10691	End	14561
Name	OJ000329_02.0418.C15.o3.gp	Method	AAT/GAP
Start	14255	End	14561
GI	uC-osroM202016d07a1	Score	565
Exons	14255..14561		
GI Descrip.	'1710401/sp P49730 RIR2_TOBAC 2.0e-15 RIBONUCLEOSIDE-DIPHOSPHATE REDUCTASE SMALL CHAIN (RIBONUCLEOTIDE REDUCTASE) (R2 SUBUNIT) >gi_1044912_emb_CAA63194_ (X92443) ribonucleotide reductase R2 [Nicotiana tabacum]'		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108176	Strand	+
Start	16242	End	19656
Name	OJ000329_02.0418.C15.o4.gs	Method	GENSCAN
Start	16242	End	19656
GI	none	Score	.53
Exons	16242..16774, 18556..19052, 19139..19656		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108176	Strand	+
Start	16242	End	19656
Name	OJ000329_02.0418.C15.o4.np	Method	AAT/NAP
Start	16377	End	16775
GI	5734617	Score	686
Exons	16377..16775		
GI Descrip.	(AP000391) hypothetical protein [Oryza sativa]		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108176	Strand	+
Start	16242	End	19656
Name	OJ000329_02.0418.C15.o5.np	Method	AAT/NAP
Start	18659	End	19653
GI	5734618	Score	1544
Exons	18659..19052, 19139..19653		
GI Descrip.	(AP000391) Similar to Arabidopsis thaliana chromosome II BAC F5H14 genomic sequence; unknown protein (AC006234) [Oryza sativa]		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108177	Strand	+
Start	21686	End	25549
Name	OJ000329_02.0418.C15.o5.gs	Method	GENSCAN
Start	21686	End	24208
GI	none	Score	.48
Exons	21686..22348, 23998..24208		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108177	Strand	+
Start	21686	End	25549
Name	OJ000329_02.0418.C15.o6.np	Method	AAT/NAP
Start	21686	End	25549
GI	5734619	Score	1518
Exons	21686..22348, 23998..24208, 25489..25549		
GI Descrip.	(AP000391) Similar to Arabidopsis thaliana BAC F15P23 (AF128392)		

[Oryza sativa]

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108178	Strand	-
Start	2196	End	2644
Name	OJ000329_02.0418.C15.o1.gp	Method	AAT/GAP
Start	2196	End	2644
GI	287187	Score	643
Exons	2196..2553, 2627..2644		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108179	Strand	-
Start	8380	End	10233
Name	OJ000329_02.0418.C15.o2.gs	Method	GENSCAN
Start	8380	End	10233
GI	none	Score	.79
Exons	8380..10233		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108179	Strand	-
Start	8380	End	10233
Name	OJ000329_02.0418.C15.o2.np	Method	AAT/NAP
Start	8383	End	10233
GI	6983881	Score	3223
Exons	8383..10233		
GI Descrip.	(AP001168) Similar to SCARECROW (U62798) [Oryza sativa]		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o3.ts	Method	TBLASTX:Soybean
Start	2403	End	3068
GI	none	Score	105
Exons	2403..2579, 2452..2580, 2572..2691, 2677..2784, 2718..2780, 2779..2886, 2969..3064, 2970..3068		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o10.tm	Method	TBLASTX:Maize
Start	2406	End	2757
GI	none	Score	191
Exons	2406..2675, 2452..2691, 2709..2756, 2710..2757		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o4.tc	Method	TBLASTX:Cress
Start	2452	End	2784
GI	none	Score	259
Exons	2452..2679, 2463..2678, 2685..2783, 2698..2784		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o3.tm	Method	TBLASTX:Maize
Start	4321	End	4814

GI	none	Score	92
Exons	4321..4482, 4329..4658, 4331..4609, 4331..4669, 4335..4676, 4671..4814, 4691..4813		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o7.ts	Method	TBLASTX:Soybean
Start	4328	End	4502
GI	none	Score	218
Exons	4328..4498, 4338..4502		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o1.ts	Method	TBLASTX:Soybean
Start	4502	End	6236
GI	none	Score	44
Exons	4502..4633, 4503..4676, 4505..4546, 4557..4676, 4680..4907, 4782..4910, 4983..5240, 4987..5241, 5161..5268, 5320..5508, 5325..5516, 5356..5517, 5620..6225, 5620..5928, 5760..5978, 6042..6236		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o5.tc	Method	TBLASTX:Cress
Start	4773	End	5241
GI	none	Score	114
Exons	4773..4907, 4983..5237, 4987..5241		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o7.tm	Method	TBLASTX:Maize
Start	4815	End	5139
GI	none	Score	130
Exons	4815..4904, 4823..4906, 4983..5138, 4984..5139		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o2.tm	Method	TBLASTX:Maize
Start	5313	End	6230
GI	none	Score	178
Exons	5313..5507, 5313..5516, 5320..5508, 5619..5711, 5619..5948, 5620..5958, 5620..5958, 5920..5991, 5959..6063, 5961..6086, 5962..6087, 6087..6224, 6087..6230, 6088..6225		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o2.tc	Method	TBLASTX:Cress
Start	5353	End	5832
GI	none	Score	191
Exons	5353..5517, 5353..5517, 5448..5519, 5620..5832, 5622..5819		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o6.tc	Method	TBLASTX:Cress
Start	5872	End	6230
GI	none	Score	43
Exons	5872..5910, 5950..6225, 5955..6230		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o7.tc	Method	TBLASTX:Cress
Start	8449	End	9477
GI	none	Score	108
Exons	8449..8502, 8542..8628, 8683..8766, 8974..9330, 9122..9322, 9421..9477		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o5.tm	Method	TBLASTX:Maize
Start	8887	End	9264
GI	none	Score	179
Exons	8887..8937, 8935..9087, 8938..9060, 9112..9264, 9113..9241		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o6.ts	Method	TBLASTX:Soybean
Start	8938	End	9309
GI	none	Score	86
Exons	8938..9036, 9103..9309, 9197..9298		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o9.tm	Method	TBLASTX:Maize
Start	9409	End	9609
GI	none	Score	114
Exons	9409..9609, 9410..9502, 9412..9510		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o4.ts	Method	TBLASTX:Soybean
Start	12703	End	24201
GI	none	Score	338
Exons	12703..12783, 21953..22252, 22033..22248, 22318..22350, 22319..22354, 23997..24200, 23998..24201		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o1.tc	Method	TBLASTX:Cress
Start	13419	End	14366
GI	none	Score	201
Exons	13419..13577, 13466..13576, 13574..13663, 13578..13664,		

13626..14366, 13667..13828, 13815..14006, 13886..14041,
14096..14365

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o1.tm	Method	TBLASTX:Maize
Start	13419	End	14408
GI	none	Score	1633
Exons	13419..13493, 13422..14408, 13460..14407, 13511..13705, 14340..14408		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o2.ts	Method	TBLASTX:Soybean
Start	13422	End	14408
GI	none	Score	207
Exons	13422..13574, 13463..13573, 13574..13753, 13581..14357, 13581..13763, 13811..14044, 14099..14356, 14127..14360, 14186..14368, 14367..14408		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o1.tw	Method	TBLASTX:Wheat
Start	13511	End	14246
GI	none	Score	933
Exons	13511..13720, 13668..14009, 13670..14245, 13671..14246, 14124..14246		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o8.ts	Method	TBLASTX:Soybean
Start	18869	End	19051
GI	none	Score	202
Exons	18869..19051, 18871..18990		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o4.tm	Method	TBLASTX:Maize
Start	18938	End	19638
GI	none	Score	86
Exons	18938..19036, 19116..19283, 19123..19293, 19135..19293, 19312..19497, 19341..19436, 19494..19637, 19495..19638		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o2.tw	Method	TBLASTX:Wheat
Start	19128	End	19389
GI	none	Score	71
Exons	19128..19187, 19138..19236, 19138..19260, 19248..19388, 19249..19389		

Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o5.ts	Method	TBLASTX:Soybean
Start	19146	End	19464
GI	none	Score	312
Exons	19146..19286, 19147..19464, 19341..19436		
Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o4.gp	Method	AAT/GAP
Start	21521	End	21822
GI	LIB3433-022-P1-K1-E1	Score	575
Exons	21521..21822		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 1.0e-158 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		
Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o3.tc	Method	TBLASTX:Cress
Start	21869	End	24198
GI	none	Score	350
Exons	21869..22249, 22036..22248, 22318..22350, 22319..22354, 23997..24194, 23998..24198		
Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o6.tm	Method	TBLASTX:Maize
Start	21938	End	22246
GI	none	Score	344
Exons	21938..22246, 21964..22245		
Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o3.tw	Method	TBLASTX:Wheat
Start	22142	End	24167
GI	none	Score	108
Exons	22142..22252, 22189..22248, 22319..22354, 22321..22350, 23997..24167, 23998..24165		
Seq. No.	51033	Seq. ID	OJ000329_02.0418.C15
Gene No.	108180	Strand	-
Start	21521	End	24222
Name	OJ000329_02.0418.C15.o8.tm	Method	TBLASTX:Maize
Start	23997	End	24222
GI	none	Score	306
Exons	23997..24197, 23998..24222		
Seq. No.	51034	Seq. ID	OJ000329_02.0418.C16
Gene No.	108181	Strand	+
Start	1	End	168
Name	OJ000329_02.0418.C16.o1.np	Method	AAT/NAP
Start	1	End	168

GI 5734619 Score 291
 Exons 1..168
 GI Descrip. (AP000391) Similar to Arabidopsis thaliana BAC F15P23 (AF128392) [Oryza sativa]

Seq. No. 51034 Seq. ID OJ000329_02.0418.C16
 Gene No. 108182 Strand -
 Start 21 End 735
 Name OJ000329_02.0418.C16.o1.gs Method GENSCAN
 Start 21 End 735
 GI none Score .72
 Exons 21..215, 625..735

Seq. No. 51034 Seq. ID OJ000329_02.0418.C16
 Gene No. 108183 Strand -
 Start 772 End 885
 Name OJ000329_02.0418.C16.o1.tc Method TBLASTX:Cress
 Start 1 End 168
 GI none Score 206
 Exons 1..168, 9..68

Seq. No. 51034 Seq. ID OJ000329_02.0418.C16
 Gene No. 108183 Strand -
 Start 772 End 885
 Name OJ000329_02.0418.C16.o1.tm Method TBLASTX:Maize
 Start 1 End 173
 GI none Score 238
 Exons 1..165, 1..162, 5..163, 54..173

Seq. No. 51034 Seq. ID OJ000329_02.0418.C16
 Gene No. 108183 Strand -
 Start 772 End 885
 Name OJ000329_02.0418.C16.o1.ts Method TBLASTX:Soybean
 Start 1 End 162
 GI none Score 216
 Exons 1..162, 1..162

Seq. No. 51034 Seq. ID OJ000329_02.0418.C16
 Gene No. 108183 Strand -
 Start 772 End 885
 Name OJ000329_02.0418.C16.o1.gp Method AAT/GAP
 Start 772 End 885
 GI 53223_1.R1084 Score 187
 Exons 772..885
 GI Descrip. '5734620/dbj|BAA83351.1| 1.0e-20 (AP000391) ESTs
 AU077435(C12539),C26534(C12539) correspond to a region of the
 predicted gene.; hypothetical protein [Oryza sativa]'

Seq. No. 51035 Seq. ID OJ000329_02.0418.C17
 Gene No. 108184 Strand -
 Start 1 End 2722
 Name OJ000329_02.0418.C17.o1.gp Method AAT/GAP
 Start 1 End 1439
 GI 53223_1.R1084 Score 1221
 Exons 1..289, 380..446, 578..688, 1078..1143, 1222..1336, 1418..1439
 GI Descrip. '5734620/dbj|BAA83351.1| 1.0e-20 (AP000391) ESTs
 AU077435(C12539),C26534(C12539) correspond to a region of the

predicted gene.; hypothetical protein [Oryza sativa]'

Seq. No.	51035	Seq. ID	OJ000329_02.0418.C17
Gene No.	108184	Strand	-
Start	1	End	2722
Name	OJ000329_02.0418.C17.o1.tm	Method	TBLASTX:Maize
Start	231	End	2711
GI	none	Score	69
Exons	231..287, 233..289, 238..288, 238..297, 240..290, 380..448, 381..449, 381..458, 543..692, 575..697, 576..689, 1078..1143, 1080..1145, 1218..1352, 1219..1359, 1413..1526, 1417..1527, 1607..1681, 1612..1680, 1614..1685, 1750..1815, 1751..1816, 1752..1817, 1997..2146, 2011..2139, 2026..2151, 2027..2140, 2251..2370, 2257..2361, 2261..2374, 2262..2402, 2574..2711, 2578..2643, 2615..2692		

Seq. No.	51035	Seq. ID	OJ000329_02.0418.C17
Gene No.	108184	Strand	-
Start	1	End	2722
Name	OJ000329_02.0418.C17.o1.tc	Method	TBLASTX:Cress
Start	242	End	1802
GI	none	Score	42
Exons	242..289, 249..290, 277..315, 380..448, 396..449, 406..450, 420..452, 574..690, 574..690, 575..691, 575..691, 1078..1143, 1080..1145, 1191..1337, 1218..1352, 1219..1359, 1400..1525, 1413..1532, 1416..1526, 1417..1527, 1590..1685, 1607..1681, 1752..1802, 1753..1788		

Seq. No.	51035	Seq. ID	OJ000329_02.0418.C17
Gene No.	108184	Strand	-
Start	1	End	2722
Name	OJ000329_02.0418.C17.o1.np	Method	AAT/NAP
Start	245	End	2722
GI	7320724	Score	1128
Exons	245..289, 380..446, 578..688, 1078..1143, 1222..1336, 1418..1527, 1614..1678, 1752..1814, 2015..2137, 2262..2360, 2577..2722		

GI Descrip. (AL161746) putative protein [Arabidopsis thaliana]

Seq. No.	51035	Seq. ID	OJ000329_02.0418.C17
Gene No.	108184	Strand	-
Start	1	End	2722
Name	OJ000329_02.0418.C17.o1.ts	Method	TBLASTX:Soybean
Start	1227	End	2657
GI	none	Score	93
Exons	1227..1337, 1227..1352, 1228..1359, 1413..1532, 1417..1527, 1607..1681, 1613..1681, 1752..1817, 1756..1788, 2015..2146, 2251..2361, 2254..2358, 2261..2374, 2262..2360, 2574..2642, 2574..2657, 2581..2643		

Seq. No.	51035	Seq. ID	OJ000329_02.0418.C17
Gene No.	108184	Strand	-
Start	1	End	2722
Name	OJ000329_02.0418.C17.o1.tw	Method	TBLASTX:Wheat
Start	1428	End	2357
GI	none	Score	139
Exons	1428..1526, 1429..1527, 1430..1528, 1596..1679, 1607..1681,		

1614..1679, 1748..1867, 1750..1815, 1752..1817, 1997..2146,
2027..2140, 2035..2151, 2243..2347, 2251..2349, 2254..2346,
2262..2357, 2262..2348

Seq. No.	51035	Seq. ID	OJ000329_02.0418.C17
Gene No.	108184	Strand	-
Start	1	End	2722
Name	OJ000329_02.0418.C17.o2.gp	Method	AAT/GAP
Start	1657	End	2722
GI	uC-osflcyp086e04b1	Score	726
Exons	1657..1678, 1752..1814, 2015..2137, 2262..2360, 2577..2722		
GI Descrip.	'5734620/dbj BAA83351.1 4.0e-17 (AP000391) ESTs AU077435(C12539),C26534(C12539) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]'		

Seq. No.	51035	Seq. ID	OJ000329_02.0418.C17
Gene No.	108184	Strand	-
Start	1	End	2722
Name	OJ000329_02.0418.C17.o1.gs	Method	GENSCAN
Start	1752	End	2642
GI	none	Score	1
Exons	1752..1814, 2015..2137, 2577..2642		

Seq. No.	51035	Seq. ID	OJ000329_02.0418.C17
Gene No.	108184	Strand	-
Start	1	End	2722
Name	OJ000329_02.0418.C17.o2.tc	Method	TBLASTX:Cress
Start	2072	End	2691
GI	none	Score	72
Exons	2072..2140, 2074..2151, 2251..2370, 2262..2360, 2574..2690, 2578..2643, 2578..2691		

Seq. No.	51036	Seq. ID	OJ000329_02.0418.C18
Gene No.	108185	Strand	-
Start	1	End	138
Name	OJ000329_02.0418.C18.o1.gp	Method	AAT/GAP
Start	1	End	138
GI	5003097	Score	260
Exons	1..138		
GI Descrip.	5734616/dbj AP000391.1 AP000391 1.0e-79 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01		

Seq. No.	51036	Seq. ID	OJ000329_02.0418.C18
Gene No.	108186	Strand	-
Start	1618	End	1810
Name	OJ000329_02.0418.C18.o2.gp	Method	AAT/GAP
Start	1618	End	1810
GI	5004333	Score	338
Exons	1618..1810		
GI Descrip.	5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01		

Seq. No.	51037	Seq. ID	OJ000309_03.0419.C2
Gene No.	108187	Strand	+
Start	4330	End	5391
Name	OJ000309_03.0419.C2.o2.np	Method	AAT/NAP
Start	4330	End	5391

GI 6815053 Score 566
 Exons 4330..4494, 4976..5391
 GI Descrip. (AP001080) hypothetical protein [Oryza sativa]

Seq. No. 51037 Seq. ID OJ000309_03.0419.C2
 Gene No. 108188 Strand -
 Start 1 End 2705
 Name OJ000309_03.0419.C2.o1.np Method AAT/NAP
 Start 1 End 656
 GI 5803254 Score 236
 Exons 1..656
 GI Descrip. (AP000399) ESTs C97429(C60159), D22427(C11106),
 AU078031(E31854), D15683(C1084) correspond to a region of the
 predicted gene; hypothetical protein [Oryza sativa]

Seq. No. 51037 Seq. ID OJ000309_03.0419.C2
 Gene No. 108188 Strand -
 Start 1 End 2705
 Name OJ000309_03.0419.C2.o1.gs Method GENSCAN
 Start 189 End 2705
 GI none Score .47
 Exons 189..689, 850..978, 1085..1161, 1480..1580, 1699..1958,
 2565..2705

Seq. No. 51037 Seq. ID OJ000309_03.0419.C2
 Gene No. 108189 Strand -
 Start 6946 End 7026
 Name OJ000309_03.0419.C2.o3.np Method AAT/NAP
 Start 6946 End 7026
 GI 7523512 Score 155
 Exons 6946..7026
 GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No. 51038 Seq. ID OJ000309_03.0419.C3
 Gene No. 108190 Strand +
 Start 273 End 1479
 Name OJ000309_03.0419.C3.o1.gs Method GENSCAN
 Start 273 End 1479
 GI none Score .9
 Exons 273..443, 1423..1479

Seq. No. 51039 Seq. ID OJ000309_03.0419.C4
 Gene No. 108191 Strand +
 Start 636 End 3395
 Name OJ000309_03.0419.C4.o1.gs Method GENSCAN
 Start 636 End 2047
 GI none Score .94
 Exons 636..647, 1925..2047

Seq. No. 51039 Seq. ID OJ000309_03.0419.C4
 Gene No. 108191 Strand +
 Start 636 End 3395
 Name OJ000309_03.0419.C4.o1.np Method AAT/NAP
 Start 1845 End 3395
 GI 7340860 Score 97
 Exons 1845..2033, 3260..3395
 GI Descrip. (AP001551) EST D24084(R1183) corresponds to a region of the

predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	51040	Seq. ID	OJ000309_03.0419.C5
Gene No.	108192	Strand	+
Start	649	End	3058
Name	OJ000309_03.0419.C5.o1.gs	Method	GENSCAN
Start	649	End	3058
GI	none	Score	.52
Exons	649..772, 931..1054, 1222..1291, 2615..2852, 2877..3058		

Seq. No.	51040	Seq. ID	OJ000309_03.0419.C5
Gene No.	108193	Strand	+
Start	8568	End	10092
Name	OJ000309_03.0419.C5.o1.np	Method	AAT/NAP
Start	8568	End	10092
GI	5453864	Score	62
Exons	8568..8600, 9983..10092		
GI Descrip.	phosphodiesterase 4D, cAMP-specific (dunce (Drosophila)-homolog phosphodiesterase E3) gi 2623739 gb AAC00042.1 (L20969) cyclic AMP phosphodiesterase [Homo sapiens]		

Seq. No.	51040	Seq. ID	OJ000309_03.0419.C5
Gene No.	108194	Strand	-
Start	2150	End	2526
Name	OJ000309_03.0419.C5.o1.gp	Method	AAT/GAP
Start	2150	End	2526
GI	5816475	Score	545
Exons	2150..2526		
GI Descrip.	5042437/gb AC007789.1 AC007789 1.0e-65 Oryza sativa BAC T49B20 genomic sequence, complete sequence		

Seq. No.	51040	Seq. ID	OJ000309_03.0419.C5
Gene No.	108195	Strand	-
Start	5141	End	9467
Name	OJ000309_03.0419.C5.o2.gs	Method	GENSCAN
Start	5141	End	9467
GI	none	Score	.82
Exons	5141..5352, 9392..9467		

Seq. No.	51041	Seq. ID	OJ000309_03.0419.C6
Gene No.	108196	Strand	-
Start	2015	End	2669
Name	OJ000309_03.0419.C6.o1.np	Method	AAT/NAP
Start	2015	End	2669
GI	4063770	Score	130
Exons	2015..2167, 2325..2669		
GI Descrip.	(AB004906) transposase [Ipomoea purpurea]		

Seq. No.	51042	Seq. ID	OJ000309_03.0419.C7
Gene No.	108197	Strand	+
Start	6785	End	7158
Name	OJ000309_03.0419.C7.o2.np	Method	AAT/NAP
Start	6785	End	7158
GI	6815062	Score	161
Exons	6785..7158		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudra like protein (AC004561) [Oryza		

sativa]

Seq. No.	51042	Seq. ID	OJ000309_03.0419.C7
Gene No.	108198	Strand	-
Start	2309	End	6719
Name	OJ000309_03.0419.C7.o1.np	Method	AAT/NAP
Start	886	End	4295
GI	6911863	Score	740
Exons	886..955, 2725..2846, 3262..3521, 3597..3884, 3963..4151, 4239..4295		
GI Descrip.	(AL138655) putative protein [Arabidopsis thaliana]		

Seq. No.	51042	Seq. ID	OJ000309_03.0419.C7
Gene No.	108198	Strand	-
Start	2309	End	6719
Name	OJ000309_03.0419.C7.o1.gs	Method	GENSCAN
Start	2309	End	6719
GI	none	Score	.82
Exons	2309..2846, 3262..3521, 3597..4151, 4239..4335, 5118..5270, 6676..6719		

Seq. No.	51042	Seq. ID	OJ000309_03.0419.C7
Gene No.	108198	Strand	-
Start	2309	End	6719
Name	OJ000309_03.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	2696	End	4268
GI	none	Score	72
Exons	2696..2848, 3255..3371, 3258..3548, 3271..3510, 3600..3764, 3601..3660, 3774..3890, 3802..3891, 3969..4127, 4048..4149, 4230..4268		

Seq. No.	51042	Seq. ID	OJ000309_03.0419.C7
Gene No.	108198	Strand	-
Start	2309	End	6719
Name	OJ000309_03.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	2720	End	3881
GI	none	Score	143
Exons	2720..2848, 3258..3548, 3271..3552, 3600..3764, 3601..3660, 3807..3881, 3808..3864		

Seq. No.	51042	Seq. ID	OJ000309_03.0419.C7
Gene No.	108198	Strand	-
Start	2309	End	6719
Name	OJ000309_03.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	3444	End	4149
GI	none	Score	49
Exons	3444..3521, 3448..3522, 3600..3764, 3601..3660, 3807..3911, 3808..3864, 3988..4149, 4047..4127		

Seq. No.	51042	Seq. ID	OJ000309_03.0419.C7
Gene No.	108198	Strand	-
Start	2309	End	6719
Name	OJ000309_03.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	3498	End	3903
GI	none	Score	75
Exons	3498..3548, 3603..3764, 3604..3660, 3801..3890, 3802..3903		

Seq. No.	51042	Seq. ID	OJ000309_03.0419.C7
Gene No.	108199	Strand	
Start	6830	End	7158
Name	OJ000309_03.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	6830	End	7158
GI	none	Score	90
Exons	6830..6973, 6986..7156, 7048..7158		

Seq. No.	51043	Seq. ID	OJ000309_03.0419.C9
Gene No.	108200	Strand	-
Start	1	End	2392
Name	OJ000309_03.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1208
GI	2462927	Score	536
Exons	1..30, 115..268, 349..472, 906..1004, 1120..1208		
GI Descrip.	(Y10342) putative amidase [Arabidopsis thaliana]		

Seq. No.	51043	Seq. ID	OJ000309_03.0419.C9
Gene No.	108200	Strand	-
Start	1	End	2392
Name	OJ000309_03.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	1	End	1699
GI	none	Score	47
Exons	1..33, 2..31, 3..35, 114..194, 114..194, 115..198, 115..195, 157..270, 174..224, 176..271, 329..472, 336..476, 346..489, 903..983, 904..996, 905..991, 1105..1200, 1110..1196, 1114..1200, 1119..1202, 1271..1504, 1290..1511, 1291..1512, 1304..1513, 1593..1697, 1595..1699, 1596..1697, 1598..1699		

Seq. No.	51043	Seq. ID	OJ000309_03.0419.C9
Gene No.	108200	Strand	-
Start	1	End	2392
Name	OJ000309_03.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	2	End	1364
GI	none	Score	52
Exons	2..31, 3..35, 114..194, 157..270, 176..271, 336..476, 337..474, 904..996, 905..991, 1119..1196, 1123..1197, 1290..1364, 1291..1347		

Seq. No.	51043	Seq. ID	OJ000309_03.0419.C9
Gene No.	108200	Strand	-
Start	1	End	2392
Name	OJ000309_03.0419.C9.o1.gs	Method	GENSCAN
Start	115	End	2392
GI	none	Score	.81
Exons	115..268, 349..472, 906..1004, 1367..1511, 1598..1714, 2390..2392		

Seq. No.	51043	Seq. ID	OJ000309_03.0419.C9
Gene No.	108200	Strand	-
Start	1	End	2392
Name	OJ000309_03.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	157	End	476
GI	none	Score	42
Exons	157..270, 162..194, 191..271, 336..476, 345..464, 346..471		

Seq. No.	51044	Seq. ID	OJ000309_03.0419.C10
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Gene No.	108201	Strand	+
Start	6274	End	9177
Name	OJ000309_03.0419.C10.o3.gs	Method	GENSCAN
Start	6274	End	9177
GI	none	Score	.78
Exons	6274..6348, 6410..6509, 7616..7897, 8567..9177		

Seq. No.	51044	Seq. ID	OJ000309_03.0419.C10
Gene No.	108201	Strand	+
Start	6274	End	9177
Name	OJ000309_03.0419.C10.o1.np	Method	AAT/NAP
Start	8509	End	9165
GI	4996622	Score	345
Exons	8509..9165		
GI Descrip.	(AB024338) germin-like protein [Atriplex lentiformis]		

Seq. No.	51044	Seq. ID	OJ000309_03.0419.C10
Gene No.	108202	Strand	-
Start	2772	End	8078
Name	OJ000309_03.0419.C10.o2.gs	Method	GENSCAN
Start	2772	End	5347
GI	none	Score	.48
Exons	2772..3083, 3359..3610, 3621..3760, 5011..5046, 5260..5347		

Seq. No.	51044	Seq. ID	OJ000309_03.0419.C10
Gene No.	108202	Strand	-
Start	2772	End	8078
Name	OJ000309_03.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	3206	End	8078
GI	none	Score	76
Exons	3206..3316, 3220..3315, 3389..3511, 3391..3510, 7407..7727, 7408..7728, 7413..7730, 7414..7728, 7722..7898, 7736..7864, 7860..7898, 7861..7902, 7977..8042, 7981..8031, 7982..8035, 8031..8078, 8035..8076		

Seq. No.	51044	Seq. ID	OJ000309_03.0419.C10
Gene No.	108202	Strand	-
Start	2772	End	8078
Name	OJ000309_03.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	3389	End	7580
GI	none	Score	143
Exons	3389..3511, 3394..3510, 7408..7578, 7413..7580		

Seq. No.	51044	Seq. ID	OJ000309_03.0419.C10
Gene No.	108203	Strand	
Start	8575	End	9111
Name	OJ000309_03.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	8575	End	9111
GI	none	Score	40
Exons	8575..8604, 8638..9111, 8769..9095		

Seq. No.	51044	Seq. ID	OJ000309_03.0419.C10
Gene No.	108203	Strand	
Start	8575	End	9111
Name	OJ000309_03.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	8578	End	9111
GI	none	Score	231

Exons 8578..8901, 8631..8912, 8917..9111, 8922..9071

Seq. No.	51044	Seq. ID	OJ000309_03.0419.C10
Gene No.	108203	Strand	
Start	8575	End	9111
Name	OJ000309_03.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	8665	End	9111
GI	none	Score	294
Exons	8665..9111, 8676..9032		

Seq. No.	51044	Seq. ID	OJ000309_03.0419.C10
Gene No.	108203	Strand	
Start	8575	End	9111
Name	OJ000309_03.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	8766	End	9111
GI	none	Score	68
Exons	8766..8933, 8766..9089, 8773..9111		

Seq. No.	51045	Seq. ID	OJ000309_03.0419.C13
Gene No.	108204	Strand	+
Start	1	End	965
Name	OJ000309_03.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	965
GI	5441880	Score	788

Exons 1..27, 333..487, 593..965

GI Descrip. (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]

Seq. No.	51045	Seq. ID	OJ000309_03.0419.C13
Gene No.	108204	Strand	+
Start	1	End	965
Name	OJ000309_03.0419.C13.o1.gs	Method	GENSCAN
Start	339	End	839
GI	none	Score	.64
Exons	339..487, 593..839		

Seq. No.	51046	Seq. ID	OJ000309_03.0419.C14
Gene No.	108205	Strand	+
Start	1	End	4461
Name	OJ000309_03.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	3634
GI	7228438	Score	2906
Exons	1..413, 505..803, 880..1138, 1231..1413, 1571..1636, 2901..3203, 3374..3634		

GI Descrip. (AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]

Seq. No.	51046	Seq. ID	OJ000309_03.0419.C14
Gene No.	108205	Strand	+
Start	1	End	4461
Name	OJ000309_03.0419.C14.o1.gs	Method	GENSCAN
Start	90	End	2487
GI	none	Score	.75
Exons	90..212, 288..413, 505..803, 880..1138, 1231..1351, 1383..1464, 1727..1858, 1922..1969, 1974..2176, 2327..2487		

Seq. No.	51046	Seq. ID	OJ000309_03.0419.C14
Gene No.	108205	Strand	+
Start	1	End	4461
Name	OJ000309_03.0419.C14.o1.gp	Method	AAT/GAP
Start	631	End	1130
GI	LIB3475-007-P1-K1-G8	Score	785
Exons	631..803, 880..1130		
GI Descrip.	'5441880/dbj BAA82378.1 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	51046	Seq. ID	OJ000309_03.0419.C14
Gene No.	108205	Strand	+
Start	1	End	4461
Name	OJ000309_03.0419.C14.o2.gp	Method	AAT/GAP
Start	2312	End	4125
GI	LIB3431-045-P1-N1-A10	Score	817
Exons	2312..2655, 4016..4125		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	51046	Seq. ID	OJ000309_03.0419.C14
Gene No.	108205	Strand	+
Start	1	End	4461
Name	OJ000309_03.0419.C14.o2.gs	Method	GENSCAN
Start	2714	End	4461
GI	none	Score	.72
Exons	2714..2716, 2901..3059, 3126..3203, 3655..3803, 4392..4461		

Seq. No.	51046	Seq. ID	OJ000309_03.0419.C14
Gene No.	108206	Strand	-
Start	4413	End	5534
Name	OJ000309_03.0419.C14.o2.np	Method	AAT/NAP
Start	4413	End	5534
GI	2462927	Score	603
Exons	4413..4445, 4818..4918, 5024..5257, 5349..5534		
GI Descrip.	(Y10342) putative amidase [Arabidopsis thaliana]		

Seq. No.	51046	Seq. ID	OJ000309_03.0419.C14
Gene No.	108206	Strand	-
Start	4413	End	5534
Name	OJ000309_03.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	4830	End	5534
GI	none	Score	56
Exons	4830..4877, 4831..4878, 4880..4918, 4881..4919, 5024..5260, 5094..5249, 5349..5534, 5443..5532		

Seq. No.	51046	Seq. ID	OJ000309_03.0419.C14
Gene No.	108206	Strand	-
Start	4413	End	5534
Name	OJ000309_03.0419.C14.o3.gs	Method	GENSCAN
Start	4847	End	5480
GI	none	Score	.95
Exons	4847..5002, 5024..5257, 5349..5480		

Seq. No.	51046	Seq. ID	OJ000309_03.0419.C14
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Gene No.	108206	Strand	-
Start	4413	End	5534
Name	OJ000309_03.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	4876	End	5534
GI	none	Score	45
Exons	4876..4917, 4877..4918, 4881..4979, 5012..5275, 5022..5213, 5024..5260, 5335..5379, 5342..5530, 5349..5534, 5350..5532		

Seq. No.	51047	Seq. ID	OJ000309_03.0419.C15
Gene No.	108207	Strand	-
Start	1	End	1253
Name	OJ000309_03.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1253
GI	4680203	Score	1070
Exons	1..1253		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51047	Seq. ID	OJ000309_03.0419.C15
Gene No.	108207	Strand	-
Start	1	End	1253
Name	OJ000309_03.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	14	End	455
GI	none	Score	87
Exons	14..205, 27..230, 212..454, 228..455		

Seq. No.	51047	Seq. ID	OJ000309_03.0419.C15
Gene No.	108207	Strand	-
Start	1	End	1253
Name	OJ000309_03.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	50	End	391
GI	none	Score	74
Exons	50..205, 51..299, 249..344, 251..346, 353..391		

Seq. No.	51047	Seq. ID	OJ000309_03.0419.C15
Gene No.	108207	Strand	-
Start	1	End	1253
Name	OJ000309_03.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	299	End	646
GI	none	Score	88
Exons	299..646, 300..452, 492..641		

Seq. No.	51047	Seq. ID	OJ000309_03.0419.C15
Gene No.	108207	Strand	-
Start	1	End	1253
Name	OJ000309_03.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	380	End	647
GI	none	Score	84
Exons	380..643, 398..622, 399..647		

Seq. No.	51047	Seq. ID	OJ000309_03.0419.C15
Gene No.	108207	Strand	-
Start	1	End	1253
Name	OJ000309_03.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	395	End	1075
GI	none	Score	84
Exons	395..520, 527..646, 540..650, 659..1075, 786..986		

Seq. No.	51047	Seq. ID	OJ000309_03.0419.C15
Gene No.	108207	Strand	-
Start	1	End	1253
Name	OJ000309_03.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	666	End	1003
GI	none	Score	202
Exons	666..950, 668..949, 948..998, 956..1003		

Seq. No.	51048	Seq. ID	OJ000309_03.0419.C16
Gene No.	108208	Strand	+
Start	1974	End	2566
Name	OJ000309_03.0419.C16.o2.gp	Method	AAT/GAP
Start	1974	End	2566
GI	300 1.R1084	Score	1009
Exons	1974..2566		
GI Descrip.	'130946/sp P15839 PRO1_ORYSA 3.0e-37 10 KD PROLAMIN PRECURSOR >gi_82451_pir_S08219 prolamin, 10K, precursor - rice >gi_20296_emb_CAA34926_ (X17074) prolamin (AA 1-134) [Oryza sativa] >gi_20308_emb_CAA33301_ (X15231) 10 kD prolamin [Oryza sativa] >gi_551659_emb_CAA57495_ (X81970) 10KD prolamin [Oryza sativa] >gi_556405 (L36604) prolamin [Oryza sativa] >gi_556407 (L36605) prolamin [Oryz']		

Seq. No.	51048	Seq. ID	OJ000309_03.0419.C16
Gene No.	108209	Strand	-
Start	2083	End	2490
Name	OJ000309_03.0419.C16.o1.gs	Method	GENSCAN
Start	2083	End	2490
GI	none	Score	.84
Exons	2083..2490		

Seq. No.	51048	Seq. ID	OJ000309_03.0419.C16
Gene No.	108209	Strand	-
Start	2083	End	2490
Name	OJ000309_03.0419.C16.o1.np	Method	AAT/NAP
Start	2086	End	2490
GI	130946	Score	628
Exons	2086..2490		
GI Descrip.	10 KD PROLAMIN PRECURSOR gi 82451 pir S08219 prolamin, 10K, precursor - rice gi 20296 emb CAA34926 (X17074) prolamin (AA 1-134) [Oryza sativa] gi 20308 emb CAA33301 (X15231) 10 kD prolamin [Oryza sativa] gi 551659 emb CAA57495 (X81970) 10KD prolamin [Oryza sativa] gi 556405 (L36604) prolamin [Oryza sativa] gi 556407 (L36605) prolamin [Oryza sativa] gi 226932 prf		

Seq. No.	51049	Seq. ID	OJ000309_03.0419.C17
Gene No.	108210	Strand	+
Start	209	End	535
Name	OJ000309_03.0419.C17.o1.gs	Method	GENSCAN
Start	209	End	535
GI	none	Score	1
Exons	209..535		

Seq. No.	51050	Seq. ID	OJ000309_03.0419.C20
Gene No.	108211	Strand	+
Start	320	End	2112
Name	OJ000309_03.0419.C20.o1.gs	Method	GENSCAN

Start	320	End	2112
GI	none	Score	.77
Exons	320..918, 962..1049, 1128..1420, 1508..1574, 1662..1925, 1993..2112		

Seq. No.	51051	Seq. ID	OJ000309_03.0419.C21
Gene No.	108212	Strand	+
Start	71	End	716
Name	OJ000309_03.0419.C21.o1.gs	Method	GENSCAN
Start	71	End	716
GI	none	Score	.57
Exons	71..143, 330..514, 600..716		

Seq. No.	51051	Seq. ID	OJ000309_03.0419.C21
Gene No.	108213	Strand	+
Start	3659	End	3802
Name	OJ000309_03.0419.C21.o2.gp	Method	AAT/GAP
Start	3659	End	3802
GI	none	Score	256
Exons	3659..3802		

Seq. No.	51051	Seq. ID	OJ000309_03.0419.C21
Gene No.	108214	Strand	-
Start	1513	End	2588
Name	OJ000309_03.0419.C21.o2.gs	Method	GENSCAN
Start	1513	End	2588
GI	none	Score	.73
Exons	1513..1570, 1675..1777, 2003..2167, 2321..2588		

Seq. No.	51052	Seq. ID	OJ000309_03.0419.C22
Gene No.	108215	Strand	+
Start	723	End	1723
Name	OJ000309_03.0419.C22.o1.gs	Method	GENSCAN
Start	723	End	1723
GI	none	Score	.95
Exons	723..949, 1055..1276, 1712..1723		

Seq. No.	51052	Seq. ID	OJ000309_03.0419.C22
Gene No.	108216	Strand	+
Start	8764	End	9176
Name	OJ000309_03.0419.C22.o1.np	Method	AAT/NAP
Start	8764	End	9176
GI	5734621	Score	54
Exons	8764..8894, 9153..9176		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	51052	Seq. ID	OJ000309_03.0419.C22
Gene No.	108217	Strand	-
Start	1	End	145
Name	OJ000309_03.0419.C22.o1.gp	Method	AAT/GAP
Start	1	End	145
GI	2233_1.R1084	Score	266
Exons	1..145		
GI Descrip.	'4176420/dbj BAA37167 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No. 51052
 Gene No. 108218
 Start 8727
 Name OJ000309_03.0419.C22.o2.gp
 Start 8556
 GI 6025028
 Exons 8556..8761

Seq. ID OJ000309_03.0419.C22
 Strand -
 End 9095
 Method AAT/GAP
 End 8761
 Score 338

Seq. No. 51052
 Gene No. 108218
 Start 8727
 Name OJ000309_03.0419.C22.o3.gs
 Start 8727
 GI none
 Exons 8727..9095

Seq. ID OJ000309_03.0419.C22
 Strand -
 End 9095
 Method GENSCAN
 End 9095
 Score .97

Seq. No. 51053
 Gene No. 108219
 Start 212
 Name OJ000309_03.0419.C23.o1.gs
 Start 212
 GI none
 Exons 212..307, 1405..1452

Seq. ID OJ000309_03.0419.C23
 Strand +
 End 1452
 Method GENSCAN
 End 1452
 Score .45

Seq. No. 51053
 Gene No. 108220
 Start 3700
 Name OJ000309_03.0419.C23.o2.gs
 Start 3700
 GI none
 Exons 3700..3819, 5049..5179

Seq. ID OJ000309_03.0419.C23
 Strand -
 End 5179
 Method GENSCAN
 End 5179
 Score .52

Seq. No. 51054
 Gene No. 108221
 Start 736
 Name OJ000309_03.0419.C24.o1.gs
 Start 736
 GI none
 Exons 736..811, 2479..2617, 2765..2867

Seq. ID OJ000309_03.0419.C24
 Strand +
 End 2867
 Method GENSCAN
 End 2867
 Score .5

Seq. No. 51054
 Gene No. 108222
 Start 3724
 Name OJ000309_03.0419.C24.o2.gs
 Start 3724
 GI none
 Exons 3724..3729, 4421..4487, 4800..5006, 5389..5663, 5937..6089, 6134..6521, 6670..6785, 7113..7227, 7398..7741

Seq. ID OJ000309_03.0419.C24
 Strand +
 End 7741
 Method GENSCAN
 End 7741
 Score .69

Seq. No. 51054
 Gene No. 108222
 Start 3724
 Name OJ000309_03.0419.C24.o2.np
 Start 4839
 GI 6691716
 Exons 4839..5733, 5909..6089, 6166..6263, 6342..6521, 6599..6785,

Seq. ID OJ000309_03.0419.C24
 Strand +
 End 7741
 Method AAT/NAP
 End 7729
 Score 2441

6861..6962, 7113..7227, 7290..7729
 GI Descrip. (AP000492) hypothetical protein [Oryza sativa]
 gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein
 [Oryza sativa]

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108223	Strand	-
Start	3167	End	4653
Name	OJ000309_03.0419.C24.o1.np	Method	AAT/NAP
Start	3167	End	4653
GI	5852093	Score	71
Exons	3167..3280, 4599..4653		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o9.tw	Method	TBLASTX:Wheat
Start	4935	End	5249
GI	none	Score	208
Exons	4935..5249		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o5.tw	Method	TBLASTX:Wheat
Start	8094	End	8704
GI	none	Score	89
Exons	8094..8222, 8247..8372, 8427..8552, 8443..8550, 8585..8704, 8595..8684		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o3.np	Method	AAT/NAP
Start	8115	End	14371
GI	5922631	Score	6494
Exons	8115..10635, 11242..12168, 12295..12340, 12524..12628, 12670..13234, 13280..13487, 13745..13989, 14248..14371		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1 (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o4.tm	Method	TBLASTX:Maize
Start	8130	End	8372
GI	none	Score	96
Exons	8130..8231, 8131..8232, 8211..8372, 8214..8336		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-

Start	8226	End	15671
Name	OJ000309_03.0419.C24.o3.gs	Method	GENSCAN
Start	8226	End	12346
GI	none	Score	.78
Exons	8226..8461, 8557..9423, 9435..9629, 10165..10672, 10880..11153, 11250..12346		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o5.tm	Method	TBLASTX:Maize
Start	8475	End	8753
GI	none	Score	51
Exons	8475..8558, 8570..8653, 8583..8657, 8640..8753, 8648..8746		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o3.tw	Method	TBLASTX:Wheat
Start	8819	End	9206
GI	none	Score	77
Exons	8819..9004, 8819..9205, 8895..9206, 8907..9206		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	8888	End	9211
GI	none	Score	242
Exons	8888..9211, 8901..9191		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o4.tw	Method	TBLASTX:Wheat
Start	9523	End	9945
GI	none	Score	228
Exons	9523..9945, 9599..9940		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o2.ts	Method	TBLASTX:Soybean
Start	9566	End	9954
GI	none	Score	60
Exons	9566..9706, 9568..9954, 9740..9814, 9851..9946		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o6.tm	Method	TBLASTX:Maize
Start	9619	End	9891
GI	none	Score	122
Exons	9619..9717, 9721..9891		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-

Start	8226	End	15671
Name	OJ000309_03.0419.C24.o7.tw	Method	TBLASTX:Wheat
Start	10011	End	10396
GI	none	Score	89
Exons	10011..10034, 10046..10249, 10047..10250, 10253..10387, 10253..10396, 10275..10394		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	10232	End	10606
GI	none	Score	105
Exons	10232..10543, 10238..10606, 10416..10559		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	10328	End	10711
GI	none	Score	155
Exons	10328..10711, 10329..10607		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o2.tw	Method	TBLASTX:Wheat
Start	10451	End	10870
GI	none	Score	220
Exons	10451..10870, 10452..10868		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o3.tm	Method	TBLASTX:Maize
Start	10739	End	11032
GI	none	Score	183
Exons	10739..11029, 10761..11030, 10901..11032		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o6.tw	Method	TBLASTX:Wheat
Start	10870	End	11104
GI	none	Score	140
Exons	10870..11061, 10871..11104, 10872..11030		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	11105	End	11902
GI	none	Score	119
Exons	11105..11398, 11109..11378, 11445..11681, 11447..11677, 11726..11902		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
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Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o7.tm	Method	TBLASTX:Maize
Start	11417	End	11594
GI	none	Score	111
Exons	11417..11593, 11448..11594		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o8.tw	Method	TBLASTX:Wheat
Start	12728	End	13066
GI	none	Score	54
Exons	12728..12943, 12961..13065, 12962..13066		

Seq. No.	51054	Seq. ID	OJ000309_03.0419.C24
Gene No.	108224	Strand	-
Start	8226	End	15671
Name	OJ000309_03.0419.C24.o4.gs	Method	GENSCAN
Start	12925	End	15671
GI	none	Score	.47
Exons	12925..13518, 13536..14119, 14221..14419, 15319..15416, 15581..15671		

Seq. No.	51055	Seq. ID	OJ000309_03.0419.C27
Gene No.	108225	Strand	+
Start	115	End	2241
Name	OJ000309_03.0419.C27.o1.np	Method	AAT/NAP
Start	115	End	2241
GI	7228442	Score	3494
Exons	115..2241		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	51055	Seq. ID	OJ000309_03.0419.C27
Gene No.	108225	Strand	+
Start	115	End	2241
Name	OJ000309_03.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	1127	End	1629
GI	none	Score	68
Exons	1127..1204, 1288..1629, 1305..1526		

Seq. No.	51055	Seq. ID	OJ000309_03.0419.C27
Gene No.	108225	Strand	+
Start	115	End	2241
Name	OJ000309_03.0419.C27.o1.gp	Method	AAT/GAP
Start	1170	End	1600
GI	5701669	Score	832
Exons	1170..1600		
GI Descrip.	5441880/dbj BAA82378.1 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	51055	Seq. ID	OJ000309_03.0419.C27
Gene No.	108225	Strand	+
Start	115	End	2241

Name	OJ000309_03.0419.C27.o1.tw	Method	TBLASTX:Wheat
Start	1420	End	1794
GI	none	Score	428
Exons	1420..1764, 1429..1794		

Seq. No.	51056	Seq. ID	OJ000309_03.0419.C28
Gene No.	108226	Strand	+
Start	1	End	841
Name	OJ000309_03.0419.C28.o2.np	Method	AAT/NAP
Start	1	End	841
GI	5690095	Score	222
Exons	1..547, 594..841		
GI Descrip.	(AJ238507) transposase related protein [Zea mays]		

Seq. No.	51056	Seq. ID	OJ000309_03.0419.C28
Gene No.	108226	Strand	+
Start	1	End	841
Name	OJ000309_03.0419.C28.o1.np	Method	AAT/NAP
Start	264	End	841
GI	6815062	Score	198
Exons	264..841		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudra like protein (AC004561) [Oryza sativa]		

Seq. No.	51056	Seq. ID	OJ000309_03.0419.C28
Gene No.	108226	Strand	+
Start	1	End	841
Name	OJ000309_03.0419.C28.o1.gs	Method	GENSCAN
Start	290	End	619
GI	none	Score	.44
Exons	290..619		

Seq. No.	51057	Seq. ID	OJ000309_03.0419.C29
Gene No.	108227	Strand	+
Start	2996	End	3223
Name	OJ000309_03.0419.C29.o2.gs	Method	GENSCAN
Start	2996	End	3223
GI	none	Score	1
Exons	2996..3223		

Seq. No.	51057	Seq. ID	OJ000309_03.0419.C29
Gene No.	108228	Strand	-
Start	1	End	2373
Name	OJ000309_03.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	2373
GI	4559351	Score	350
Exons	1..42, 1259..1519, 1683..2063, 2104..2373		
GI Descrip.	(AC006585) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51057	Seq. ID	OJ000309_03.0419.C29
Gene No.	108228	Strand	-
Start	1	End	2373
Name	OJ000309_03.0419.C29.o2.np	Method	AAT/NAP
Start	1	End	2323
GI	6815062	Score	311
Exons	1..72, 1288..1515, 1622..2063, 2097..2323		

GI Descrip. (AP001080) Similar to Arabidopsis thaliana chromosome II BAC F16P2 genomic sequence;mudrA like protein (AC004561) [Oryza sativa]

Seq. No.	51057	Seq. ID	OJ000309_03.0419.C29
Gene No.	108228	Strand	-
Start	1	End	2373
Name	OJ000309_03.0419.C29.o1.gs	Method	GENSCAN
Start	532	End	2169
GI	none	Score	.7
Exons	532..738, 983..1515, 1617..2169		

Seq. No.	51057	Seq. ID	OJ000309_03.0419.C29
Gene No.	108228	Strand	-
Start	1	End	2373
Name	OJ000309_03.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	1735	End	2064
GI	none	Score	51
Exons	1735..1806, 1739..1801, 1804..2064, 1832..1987		

Seq. No.	51058	Seq. ID	OJ000309_03.0419.C30
Gene No.	108229	Strand	-
Start	3339	End	3722
Name	OJ000309_03.0419.C30.o1.gs	Method	GENSCAN
Start	3339	End	3722
GI	none	Score	.83
Exons	3339..3453, 3610..3722		

Seq. No.	51058	Seq. ID	OJ000309_03.0419.C30
Gene No.	108230	Strand	-
Start	4909	End	5401
Name	OJ000309_03.0419.C30.o2.gs	Method	GENSCAN
Start	4909	End	5401
GI	none	Score	.72
Exons	4909..5039, 5368..5401		

Seq. No.	51059	Seq. ID	OJ000309_03.0419.C31
Gene No.	108231	Strand	-
Start	687	End	881
Name	OJ000309_03.0419.C31.o1.gs	Method	GENSCAN
Start	687	End	881
GI	none	Score	.79
Exons	687..881		

Seq. No.	51060	Seq. ID	OJ000309_03.0419.C32
Gene No.	108232	Strand	-
Start	401	End	550
Name	OJ000309_03.0419.C32.o1.gs	Method	GENSCAN
Start	401	End	550
GI	none	Score	.64
Exons	401..550		

Seq. No.	51061	Seq. ID	OJ000329_08.0418.C1
Gene No.	108233	Strand	-
Start	545	End	1118
Name	OJ000329_08.0418.C1.o1.gs	Method	GENSCAN
Start	545	End	1118

GI	none	Score	.81
Exons	545..759, 977..1118		
Seq. No.	51062	Seq. ID	OJ000329_08.0418.C2
Gene No.	108234	Strand	+
Start	1	End	1153
Name	OJ000329_08.0418.C2.o1.np	Method	AAT/NAP
Start	1	End	1123
GI	6979335	Score	1175
Exons	1..1123		
GI Descrip.	(AF172282) receptor-like protein kinase [Oryza sativa]		

Seq. No.	51062	Seq. ID	OJ000329_08.0418.C2
Gene No.	108234	Strand	+
Start	1	End	1153
Name	OJ000329_08.0418.C2.o1.gs	Method	GENSCAN
Start	119	End	1153
GI	none	Score	.95
Exons	119..1153		

Seq. No.	51062	Seq. ID	OJ000329_08.0418.C2
Gene No.	108235	Strand	+
Start	2834	End	5322
Name	OJ000329_08.0418.C2.o2.gs	Method	GENSCAN
Start	2834	End	5322
GI	none	Score	.87
Exons	2834..3345, 4502..4601, 5179..5322		

Seq. No.	51062	Seq. ID	OJ000329_08.0418.C2
Gene No.	108236	Strand	+
Start	6052	End	6640
Name	OJ000329_08.0418.C2.o1.ts	Method	TBLASTX:Soybean
Start	85	End	1072
GI	none	Score	59
Exons	85..330, 167..313, 341..505, 377..478, 391..504, 469..564, 494..841, 604..840, 908..1072		

Seq. No.	51062	Seq. ID	OJ000329_08.0418.C2
Gene No.	108236	Strand	+
Start	6052	End	6640
Name	OJ000329_08.0418.C2.o1.tc	Method	TBLASTX:Cress
Start	194	End	6540
GI	none	Score	91
Exons	194..319, 232..318, 311..832, 311..490, 313..861, 868..1056, 869..1105, 992..1084, 6220..6369, 6496..6540		

Seq. No.	51062	Seq. ID	OJ000329_08.0418.C2
Gene No.	108236	Strand	+
Start	6052	End	6640
Name	OJ000329_08.0418.C2.o2.tm	Method	TBLASTX:Maize
Start	194	End	503
GI	none	Score	147
Exons	194..319, 196..318, 259..492, 260..502, 342..503		

Seq. No.	51062	Seq. ID	OJ000329_08.0418.C2
Gene No.	108236	Strand	+
Start	6052	End	6640

Name	OJ000329_08.0418.C2.o1.tw	Method	TBLASTX:Wheat
Start	361	End	775
GI	none	Score	120
Exons	361..516, 362..514, 493..675, 506..712, 713..775, 718..774		

Seq. No.	51062	Seq. ID	OJ000329_08.0418.C2
Gene No.	108236	Strand	+
Start	6052	End	6640
Name	OJ000329_08.0418.C2.o1.tm	Method	TBLASTX:Maize
Start	505	End	1096
GI	none	Score	425
Exons	505..831, 509..835, 872..1096, 874..1056		

Seq. No.	51062	Seq. ID	OJ000329_08.0418.C2
Gene No.	108236	Strand	+
Start	6052	End	6640
Name	OJ000329_08.0418.C2.o2.np	Method	AAT/NAP
Start	6041	End	6640
GI	1272347	Score	292
Exons	6041..6640		
GI Descrip.	(U51739) secreted glycoprotein 2 [Ipomoea trifida]		

Seq. No.	51062	Seq. ID	OJ000329_08.0418.C2
Gene No.	108236	Strand	+
Start	6052	End	6640
Name	OJ000329_08.0418.C2.o3.gs	Method	GENSCAN
Start	6052	End	6538
GI	none	Score	.57
Exons	6052..6214, 6251..6538		

Seq. No.	51062	Seq. ID	OJ000329_08.0418.C2
Gene No.	108236	Strand	+
Start	6052	End	6640
Name	OJ000329_08.0418.C2.o2.ts	Method	TBLASTX:Soybean
Start	6166	End	6630
GI	none	Score	65
Exons	6166..6255, 6196..6315, 6254..6322, 6325..6405, 6418..6630		

Seq. No.	51063	Seq. ID	OJ000329_08.0418.C3
Gene No.	108237	Strand	+
Start	1	End	1028
Name	OJ000329_08.0418.C3.o1.np	Method	AAT/NAP
Start	1	End	1016
GI	6979335	Score	1236
Exons	1..1016		
GI Descrip.	(AF172282) receptor-like protein kinase [Oryza sativa]		

Seq. No.	51063	Seq. ID	OJ000329_08.0418.C3
Gene No.	108237	Strand	+
Start	1	End	1028
Name	OJ000329_08.0418.C3.o1.gs	Method	GENSCAN
Start	7	End	1028
GI	none	Score	.87
Exons	7..157, 553..1028		

Seq. No.	51063	Seq. ID	OJ000329_08.0418.C3
Gene No.	108237	Strand	+

Start	1	End	1028
Name	OJ000329_08.0418.C3.o1.ts	Method	TBLASTX:Soybean
Start	82	End	537
GI	none	Score	339
Exons	82..396, 96..374, 399..524, 400..537		

Seq. No.	51063	Seq. ID	OJ000329_08.0418.C3
Gene No.	108237	Strand	+
Start	1	End	1028
Name	OJ000329_08.0418.C3.o2.tm	Method	TBLASTX:Maize
Start	87	End	391
GI	none	Score	161
Exons	87..212, 88..213, 205..387, 207..386, 236..391		

Seq. No.	51063	Seq. ID	OJ000329_08.0418.C3
Gene No.	108237	Strand	+
Start	1	End	1028
Name	OJ000329_08.0418.C3.o1.tc	Method	TBLASTX:Cress
Start	100	End	998
GI	none	Score	104
Exons	100..219, 123..218, 195..320, 196..549, 205..417, 354..524, 457..546, 537..761, 551..760, 765..998		

Seq. No.	51063	Seq. ID	OJ000329_08.0418.C3
Gene No.	108237	Strand	+
Start	1	End	1028
Name	OJ000329_08.0418.C3.o1.tw	Method	TBLASTX:Wheat
Start	256	End	668
GI	none	Score	95
Exons	256..387, 397..549, 429..524, 606..668		

Seq. No.	51063	Seq. ID	OJ000329_08.0418.C3
Gene No.	108237	Strand	+
Start	1	End	1028
Name	OJ000329_08.0418.C3.o1.tm	Method	TBLASTX:Maize
Start	399	End	1001
GI	none	Score	189
Exons	399..569, 400..549, 540..728, 548..724, 720..1001, 731..979		

Seq. No.	51063	Seq. ID	OJ000329_08.0418.C3
Gene No.	108237	Strand	+
Start	1	End	1028
Name	OJ000329_08.0418.C3.o2.ts	Method	TBLASTX:Soybean
Start	584	End	1016
GI	none	Score	185
Exons	584..727, 591..725, 607..732, 667..738, 840..1016, 881..1006		

Seq. No.	51064	Seq. ID	OJ000329_08.0418.C4
Gene No.	108238	Strand	+
Start	997	End	1306
Name	OJ000329_08.0418.C4.o1.tw	Method	TBLASTX:Wheat
Start	8	End	374
GI	none	Score	134
Exons	8..172, 28..168, 186..374		

Seq. No.	51064	Seq. ID	OJ000329_08.0418.C4
Gene No.	108238	Strand	+

Start	997	End	1306
Name	OJ000329_08.0418.C4.o1.tm	Method	TBLASTX:Maize
Start	263	End	557
GI	none	Score	295
Exons	263..370, 267..557, 309..464, 398..538		

Seq. No.	51064	Seq. ID	OJ000329_08.0418.C4
Gene No.	108238	Strand	+
Start	997	End	1306
Name	OJ000329_08.0418.C4.o1.gs	Method	GENSCAN
Start	997	End	1306
GI	none	Score	.56
Exons	997..1306		

Seq. No.	51065	Seq. ID	OJ000329_08.0418.C5
Gene No.	108239	Strand	+
Start	2129	End	5629
Name	OJ000329_08.0418.C5.o1.np	Method	AAT/NAP
Start	2129	End	5625
GI	6979335	Score	1848
Exons	2129..3703, 4800..5625		
GI Descrip.	(AF172282) receptor-like protein kinase [Oryza sativa]		

Seq. No.	51065	Seq. ID	OJ000329_08.0418.C5
Gene No.	108239	Strand	+
Start	2129	End	5629
Name	OJ000329_08.0418.C5.o1.gs	Method	GENSCAN
Start	2132	End	5629
GI	none	Score	.5
Exons	2132..3098, 4070..4159, 4490..4618, 5390..5541, 5612..5629		

Seq. No.	51065	Seq. ID	OJ000329_08.0418.C5
Gene No.	108240	Strand	-
Start	6197	End	6349
Name	OJ000329_08.0418.C5.o1.tc	Method	TBLASTX:Cress
Start	2324	End	5616
GI	none	Score	84
Exons	2324..2455, 2584..2670, 2585..2635, 2669..2734, 2747..2854, 2763..2825, 2954..3049, 3075..3152, 3198..3320, 4801..5334, 4813..4980, 4815..5363, 5371..5616, 5494..5583		

Seq. No.	51065	Seq. ID	OJ000329_08.0418.C5
Gene No.	108240	Strand	-
Start	6197	End	6349
Name	OJ000329_08.0418.C5.o2.ts	Method	TBLASTX:Soybean
Start	2587	End	3119
GI	none	Score	110
Exons	2587..2706, 2588..2707, 2782..2823, 2783..2893, 2957..3067, 3075..3119		

Seq. No.	51065	Seq. ID	OJ000329_08.0418.C5
Gene No.	108240	Strand	-
Start	6197	End	6349
Name	OJ000329_08.0418.C5.o1.tw	Method	TBLASTX:Wheat
Start	2971	End	3363
GI	none	Score	90
Exons	2971..3066, 2972..3067, 3068..3163, 3070..3159, 3072..3362,		

3073..3363, 3074..3361

Seq. No.	51065	Seq. ID	OJ000329_08.0418.C5
Gene No.	108240	Strand	-
Start	6197	End	6349
Name	OJ000329_08.0418.C5.o1.tm	Method	TBLASTX:Maize
Start	4834	End	5574
GI	none	Score	88
Exons	4834..4953, 4942..5574, 5010..5174, 5217..5249		

Seq. No.	51065	Seq. ID	OJ000329_08.0418.C5
Gene No.	108240	Strand	-
Start	6197	End	6349
Name	OJ000329_08.0418.C5.o2.tw	Method	TBLASTX:Wheat
Start	4863	End	5277
GI	none	Score	114
Exons	4863..5018, 4864..5016, 5001..5177, 5008..5214, 5215..5277		

Seq. No.	51065	Seq. ID	OJ000329_08.0418.C5
Gene No.	108240	Strand	-
Start	6197	End	6349
Name	OJ000329_08.0418.C5.o1.ts	Method	TBLASTX:Soybean
Start	4939	End	5592
GI	none	Score	62
Exons	4939..4995, 5013..5177, 5014..5211, 5199..5249, 5200..5334, 5269..5334, 5418..5558, 5443..5592		

Seq. No.	51065	Seq. ID	OJ000329_08.0418.C5
Gene No.	108240	Strand	-
Start	6197	End	6349
Name	OJ000329_08.0418.C5.o2.gs	Method	GENSCAN
Start	6197	End	6349
GI	none	Score	.51
Exons	6197..6205, 6233..6349		

Seq. No.	51066	Seq. ID	OJ000329_08.0418.C6
Gene No.	108241	Strand	+
Start	209	End	2626
Name	OJ000329_08.0418.C6.o1.gs	Method	GENSCAN
Start	209	End	2626
GI	none	Score	.74
Exons	209..331, 1790..2022, 2434..2626		

Seq. No.	51067	Seq. ID	OJ000329_08.0418.C7
Gene No.	108242	Strand	+
Start	1	End	826
Name	OJ000329_08.0418.C7.o1.np	Method	AAT/NAP
Start	1	End	826
GI	6979335	Score	709
Exons	1..826		
GI Descrip.	(AF172282) receptor-like protein kinase [Oryza sativa]		

Seq. No.	51067	Seq. ID	OJ000329_08.0418.C7
Gene No.	108242	Strand	+
Start	1	End	826
Name	OJ000329_08.0418.C7.o1.tw	Method	TBLASTX:Wheat
Start	1	End	252

GI	none	Score	66
Exons	1..243, 3..53, 7..252, 168..251		
Seq. No.	51067	Seq. ID	OJ000329_08.0418.C7
Gene No.	108242	Strand	+
Start	1	End	826
Name	OJ000329_08.0418.C7.o1.gs	Method	GENSCAN
Start	37	End	724
GI	none	Score	.6
Exons	37..724		
Seq. No.	51067	Seq. ID	OJ000329_08.0418.C7
Gene No.	108242	Strand	+
Start	1	End	826
Name	OJ000329_08.0418.C7.o1.tc	Method	TBLASTX:Cress
Start	73	End	825
GI	none	Score	65
Exons	73..222, 487..612, 495..611, 592..825, 604..771, 606..818		
Seq. No.	51067	Seq. ID	OJ000329_08.0418.C7
Gene No.	108242	Strand	+
Start	1	End	826
Name	OJ000329_08.0418.C7.o1.ts	Method	TBLASTX:Soybean
Start	369	End	786
GI	none	Score	36
Exons	369..386, 493..606, 495..605, 598..786, 600..773		
Seq. No.	51067	Seq. ID	OJ000329_08.0418.C7
Gene No.	108242	Strand	+
Start	1	End	826
Name	OJ000329_08.0418.C7.o1.tm	Method	TBLASTX:Maize
Start	487	End	825
GI	none	Score	142
Exons	487..612, 489..611, 552..785, 553..795, 604..825, 605..796		
Seq. No.	51068	Seq. ID	OJ000329_08.0418.C8
Gene No.	108243	Strand	-
Start	1	End	795
Name	OJ000329_08.0418.C8.o1.np	Method	AAT/NAP
Start	1	End	795
GI	6006359	Score	60
Exons	1..62, 698..795		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		
Seq. No.	51069	Seq. ID	OJ000329_08.0418.C12
Gene No.	108244	Strand	+
Start	257	End	1884
Name	OJ000329_08.0418.C12.o1.gs	Method	GENSCAN
Start	257	End	1884
GI	none	Score	.96
Exons	257..334, 674..730, 880..1029, 1144..1350, 1642..1884		
Seq. No.	51069	Seq. ID	OJ000329_08.0418.C12
Gene No.	108245	Strand	+
Start	3287	End	3650
Name	OJ000329_08.0418.C12.o1.gp	Method	AAT/GAP
Start	3287	End	3650

GI	none	Score	532
Exons	3287..3650		
Seq. No.	51069	Seq. ID	OJ000329_08.0418.C12
Gene No.	108246	Strand	+
Start	5342	End	5765
Name	OJ000329_08.0418.C12.o2.gp	Method	AAT/GAP
Start	5342	End	5765
GI	none	Score	825
Exons	5342..5765		

Seq. No.	51069	Seq. ID	OJ000329_08.0418.C12
Gene No.	108247	Strand	-
Start	2491	End	7279
Name	OJ000329_08.0418.C12.o1.tm	Method	TBLASTX:Maize
Start	237	End	2119
GI	none	Score	112
Exons	237..314, 238..336, 260..334, 671..775, 671..730, 672..731, 673..753, 820..849, 867..1028, 877..1029, 877..1029, 879..1043, 1132..1326, 1141..1164, 1142..1336, 1143..1325, 1240..1326, 1299..1403, 1300..1368, 1635..1766, 1645..1788, 1647..1730, 1741..1896, 1791..1895, 1807..1896, 1812..1937, 1814..1948, 1913..2044, 1961..2044, 2059..2118, 2060..2119		

Seq. No.	51069	Seq. ID	OJ000329_08.0418.C12
Gene No.	108247	Strand	-
Start	2491	End	7279
Name	OJ000329_08.0418.C12.o1.tw	Method	TBLASTX:Wheat
Start	289	End	1191
GI	none	Score	71
Exons	289..333, 290..334, 290..334, 292..336, 657..731, 671..775, 673..732, 877..1029, 877..1023, 1132..1191, 1143..1190		

Seq. No.	51069	Seq. ID	OJ000329_08.0418.C12
Gene No.	108247	Strand	-
Start	2491	End	7279
Name	OJ000329_08.0418.C12.o1.tc	Method	TBLASTX:Cress
Start	671	End	1197
GI	none	Score	85
Exons	671..769, 673..765, 877..1029, 877..1029, 888..1043, 1132..1197, 1143..1190		

Seq. No.	51069	Seq. ID	OJ000329_08.0418.C12
Gene No.	108247	Strand	-
Start	2491	End	7279
Name	OJ000329_08.0418.C12.o1.ts	Method	TBLASTX:Soybean
Start	868	End	1339
GI	none	Score	184
Exons	868..1029, 888..1043, 1132..1326, 1142..1339, 1143..1325		

Seq. No.	51069	Seq. ID	OJ000329_08.0418.C12
Gene No.	108247	Strand	-
Start	2491	End	7279
Name	OJ000329_08.0418.C12.o2.gs	Method	GENSCAN
Start	2491	End	7279
GI	none	Score	.47
Exons	2491..2518, 2641..2812, 3379..4003, 5514..5658, 6927..7279		

Seq. No.	51069	Seq. ID	OJ000329_08.0418.C12
Gene No.	108247	Strand	-
Start	2491	End	7279
Name	OJ000329_08.0418.C12.o2.tm	Method	TBLASTX:Maize
Start	3872	End	4923
GI	none	Score	183
Exons	3872..4018, 3896..4018, 3903..4019, 4262..4387, 4262..4387, 4822..4923, 4824..4922		

Seq. No.	51069	Seq. ID	OJ000329_08.0418.C12
Gene No.	108247	Strand	-
Start	2491	End	7279
Name	OJ000329_08.0418.C12.o2.ts	Method	TBLASTX:Soybean
Start	3926	End	5429
GI	none	Score	74
Exons	3926..4009, 4229..4387, 4261..4329, 4262..4408, 4822..4923, 4830..4910, 4837..4923, 5035..5082, 5349..5429		

Seq. No.	51070	Seq. ID	OJ000329_08.0418.C13
Gene No.	108248	Strand	+
Start	1	End	150
Name	OJ000329_08.0418.C13.o1.np	Method	AAT/NAP
Start	1	End	150
GI	7340920	Score	146
Exons	1..150		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51070	Seq. ID	OJ000329_08.0418.C13
Gene No.	108249	Strand	-
Start	1950	End	2547
Name	OJ000329_08.0418.C13.o2.gs	Method	GENSCAN
Start	1950	End	2547
GI	none	Score	.95
Exons	1950..2152, 2337..2547		

Seq. No.	51070	Seq. ID	OJ000329_08.0418.C13
Gene No.	108249	Strand	-
Start	1950	End	2547
Name	OJ000329_08.0418.C13.o2.np	Method	AAT/NAP
Start	1953	End	2505
GI	3860333	Score	184
Exons	1953..2152, 2337..2505		
GI Descrip.	(AJ012693) basic blue copper protein [Cicer arietinum]		

Seq. No.	51070	Seq. ID	OJ000329_08.0418.C13
Gene No.	108250	Strand	-
Start	3739	End	4102
Name	OJ000329_08.0418.C13.o3.np	Method	AAT/NAP
Start	3739	End	4102
GI	6069663	Score	64
Exons	3739..3942, 4070..4102		
GI Descrip.	(AP000616) ESTs C72127(E1041),AU078646(E1041) correspond to a region of the predicted gene.; similar to Arabidopsis thaliana BAC F3D13; similar to Medicago truncatula MtN2 (AF069300) [Oryza sativa]		

Seq. No. 51071
Gene No. 108251
Start 922
Name OJ000329_08.0418.C14.o1.gs
Start 922
GI none
Exons 922..1178

Seq. ID OJ000329_08.0418.C14
Strand +
End 1178
Method GENSCAN
End 1178
Score .8

Seq. No. 51071
Gene No. 108252
Start 7453
Name OJ000329_08.0418.C14.o4.gs
Start 7453
GI none
Exons 7453..7621, 7658..8022

Seq. ID OJ000329_08.0418.C14
Strand +
End 8022
Method GENSCAN
End 8022
Score .42

Seq. No. 51071
Gene No. 108253
Start 9212
Name OJ000329_08.0418.C14.o5.gs
Start 9212
GI none
Exons 9212..9727

Seq. ID OJ000329_08.0418.C14
Strand +
End 9727
Method GENSCAN
End 9727
Score .99

Seq. No. 51071
Gene No. 108254
Start 14624
Name OJ000329_08.0418.C14.o6.gs
Start 14624
GI none
Exons 14624..14807, 15869..15969, 17926..18030

Seq. ID OJ000329_08.0418.C14
Strand +
End 21424
Method GENSCAN
End 18030
Score .8

Seq. No. 51071
Gene No. 108254
Start 14624
Name OJ000329_08.0418.C14.o3.np
Start 14657
GI 5777632
Exons 14657..14802, 18165..18281, 18570..18825, 18925..19083, 19189..19340, 19447..19516, 21207..21424
GI Descrip. (AJ245900) CAA303720.1 protein [Oryza sativa]

Seq. ID OJ000329_08.0418.C14
Strand +
End 21424
Method AAT/NAP
End 21424
Score 565

Seq. No. 51071
Gene No. 108254
Start 14624
Name OJ000329_08.0418.C14.o1.gp
Start 19248
GI uC-osflcyp128a09a1
Exons 19248..19340, 19447..19772
GI Descrip. '5262202/emb|CAB45799.1| 2.0e-12 (AL080252) nodulin-like protein [Arabidopsis thaliana]'

Seq. ID OJ000329_08.0418.C14
Strand +
End 21424
Method AAT/GAP
End 19772
Score 794

Seq. No. 51071
Gene No. 108255
Start 1
Name OJ000329_08.0418.C14.o1.np
Start 1

Seq. ID OJ000329_08.0418.C14
Strand -
End 2416
Method AAT/NAP
End 2416

GI 6069664 Score 604
 Exons 1..24, 103..254, 882..1314, 1737..1851, 1978..2042, 2244..2416
 GI Descrip. (AP000616) ESTs AU055729(S20023), AU055730(S20023) correspond to a region of the predicted gene.; similar to Medicago nodulin N21-like protein (AC004218) [Oryza sativa]

Seq. No. 51071 Seq. ID OJ000329_08.0418.C14
 Gene No. 108255 Strand -
 Start 1 End 2416
 Name OJ000329_08.0418.C14.o2.gs Method GENSCAN
 Start 1733 End 2389
 GI none Score .71
 Exons 1733..1853, 2244..2389

Seq. No. 51071 Seq. ID OJ000329_08.0418.C14
 Gene No. 108256 Strand -
 Start 5518 End 6648
 Name OJ000329_08.0418.C14.o2.np Method AAT/NAP
 Start 5518 End 6648
 GI 7444451 Score 894
 Exons 5518..6648
 GI Descrip. probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]

Seq. No. 51071 Seq. ID OJ000329_08.0418.C14
 Gene No. 108257 Strand -
 Start 19201 End 22227
 Name OJ000329_08.0418.C14.o1.ts Method TBLASTX:Soybean
 Start 102 End 19338
 GI none Score 105
 Exons 102..254, 945..1103, 18919..19110, 19189..19338

Seq. No. 51071 Seq. ID OJ000329_08.0418.C14
 Gene No. 108257 Strand -
 Start 19201 End 22227
 Name OJ000329_08.0418.C14.o3.tm Method TBLASTX:Maize
 Start 105 End 19338
 GI none Score 77
 Exons 105..254, 940..1116, 942..1103, 1209..1286, 1748..1855, 18541..18678, 18919..19110, 19188..19337, 19189..19338

Seq. No. 51071 Seq. ID OJ000329_08.0418.C14
 Gene No. 108257 Strand -
 Start 19201 End 22227
 Name OJ000329_08.0418.C14.o2.tw Method TBLASTX:Wheat
 Start 5504 End 5719
 GI none Score 49
 Exons 5504..5584, 5515..5574, 5590..5718, 5648..5719

Seq. No. 51071 Seq. ID OJ000329_08.0418.C14
 Gene No. 108257 Strand -
 Start 19201 End 22227
 Name OJ000329_08.0418.C14.o2.tm Method TBLASTX:Maize
 Start 5572 End 6123
 GI none Score 83
 Exons 5572..5700, 5692..5805, 5918..5944, 6010..6123

Seq. No.	51071	Seq. ID	OJ000329_08.0418.C14
Gene No.	108257	Strand	-
Start	19201	End	22227
Name	OJ000329_08.0418.C14.o1.tw	Method	TBLASTX:Wheat
Start	5977	End	6327
GI	none	Score	87
Exons	5977..6327, 6068..6277		

Seq. No.	51071	Seq. ID	OJ000329_08.0418.C14
Gene No.	108257	Strand	-
Start	19201	End	22227
Name	OJ000329_08.0418.C14.o1.tm	Method	TBLASTX:Maize
Start	6124	End	6559
GI	none	Score	196
Exons	6124..6426, 6131..6433, 6445..6558, 6473..6559		

Seq. No.	51071	Seq. ID	OJ000329_08.0418.C14
Gene No.	108257	Strand	-
Start	19201	End	22227
Name	OJ000329_08.0418.C14.o7.gs	Method	GENSCAN
Start	19201	End	22211
GI	none	Score	.57
Exons	19201..19489, 20200..20407, 20670..20764, 21211..21302, 21607..21975, 22080..22211		

Seq. No.	51071	Seq. ID	OJ000329_08.0418.C14
Gene No.	108257	Strand	-
Start	19201	End	22227
Name	OJ000329_08.0418.C14.o2.gp	Method	AAT/GAP
Start	21926	End	22227
GI	568639	Score	344
Exons	21926..21975, 22080..22227		

Seq. No.	51072	Seq. ID	OJ000329_08.0418.C15
Gene No.	108258	Strand	+
Start	1843	End	2710
Name	OJ000329_08.0418.C15.o2.gs	Method	GENSCAN
Start	1843	End	2710
GI	none	Score	.57
Exons	1843..2158, 2164..2710		

Seq. No.	51072	Seq. ID	OJ000329_08.0418.C15
Gene No.	108259	Strand	-
Start	182	End	1387
Name	OJ000329_08.0418.C15.o1.gs	Method	GENSCAN
Start	182	End	1387
GI	none	Score	.63
Exons	182..309, 616..726, 1013..1034, 1223..1301, 1343..1387		

Seq. No.	51073	Seq. ID	OJ000329_08.0418.C16
Gene No.	108260	Strand	+
Start	199	End	525
Name	OJ000329_08.0418.C16.o1.gs	Method	GENSCAN
Start	199	End	525
GI	none	Score	.42
Exons	199..525		

Seq. No.	51073	Seq. ID	OJ000329_08.0418.C16
Gene No.	108261	Strand	+
Start	1919	End	3200
Name	OJ000329_08.0418.C16.o2.gs	Method	GENSCAN
Start	1919	End	3200
GI	none	Score	.62
Exons	1919..2270, 2743..3200		

Seq. No.	51073	Seq. ID	OJ000329_08.0418.C16
Gene No.	108261	Strand	+
Start	1919	End	3200
Name	OJ000329_08.0418.C16.o1.tm	Method	TBLASTX:Maize
Start	2009	End	2688
GI	none	Score	377
Exons	2009..2410, 2014..2436, 2496..2681, 2503..2688		

Seq. No.	51073	Seq. ID	OJ000329_08.0418.C16
Gene No.	108261	Strand	+
Start	1919	End	3200
Name	OJ000329_08.0418.C16.o1.np	Method	AAT/NAP
Start	2372	End	3197
GI	6967112	Score	371
Exons	2372..2410, 2506..3197		
GI Descrip.	(AL138652) putative protein [Arabidopsis thaliana]		

Seq. No.	51073	Seq. ID	OJ000329_08.0418.C16
Gene No.	108261	Strand	+
Start	1919	End	3200
Name	OJ000329_08.0418.C16.o1.ts	Method	TBLASTX:Soybean
Start	2500	End	2876
GI	none	Score	169
Exons	2500..2676, 2503..2679, 2712..2876, 2717..2860, 2742..2876		

Seq. No.	51073	Seq. ID	OJ000329_08.0418.C16
Gene No.	108261	Strand	+
Start	1919	End	3200
Name	OJ000329_08.0418.C16.o1.tw	Method	TBLASTX:Wheat
Start	2557	End	2963
GI	none	Score	132
Exons	2557..2691, 2568..2669, 2681..2959, 2682..2963		

Seq. No.	51073	Seq. ID	OJ000329_08.0418.C16
Gene No.	108261	Strand	+
Start	1919	End	3200
Name	OJ000329_08.0418.C16.o4.tm	Method	TBLASTX:Maize
Start	2691	End	2885
GI	none	Score	243
Exons	2691..2885, 2693..2833, 2694..2885		

Seq. No.	51073	Seq. ID	OJ000329_08.0418.C16
Gene No.	108261	Strand	+
Start	1919	End	3200
Name	OJ000329_08.0418.C16.o2.tm	Method	TBLASTX:Maize
Start	2889	End	3188
GI	none	Score	338
Exons	2889..3188, 2891..3118		

Seq. No.	51073	Seq. ID	OJ000329_08.0418.C16
Gene No.	108262	Strand	
Start	3555	End	3807
Name	OJ000329_08.0418.C16.o3.tm	Method	TBLASTX:Maize
Start	3555	End	3807
GI	none	Score	305
Exons	3555..3800, 3556..3807		

Seq. No.	51074	Seq. ID	OJ000329_08.0418.C21
Gene No.	108263	Strand	+
Start	6484	End	8279
Name	OJ000329_08.0418.C21.o2.gs	Method	GENSCAN
Start	6484	End	8279
GI	none	Score	.81
Exons	6484..6506, 7263..7407, 7443..7771, 7779..8279		

Seq. No.	51074	Seq. ID	OJ000329_08.0418.C21
Gene No.	108264	Strand	-
Start	986	End	3936
Name	OJ000329_08.0418.C21.o1.np	Method	AAT/NAP
Start	986	End	3589
GI	6143899	Score	858
Exons	986..1187, 1282..1409, 1507..1701, 1778..1875, 2267..2412, 3174..3589		
GI Descrip.	(AC010718) unknown protein, 3' partial [Arabidopsis thaliana]		

Seq. No.	51074	Seq. ID	OJ000329_08.0418.C21
Gene No.	108264	Strand	-
Start	986	End	3936
Name	OJ000329_08.0418.C21.o1.gs	Method	GENSCAN
Start	1029	End	3936
GI	none	Score	.78
Exons	1029..1187, 1282..1467, 1833..1875, 2267..2412, 3174..3427, 3523..3597, 3873..3936		

Seq. No.	51074	Seq. ID	OJ000329_08.0418.C21
Gene No.	108265	Strand	-
Start	4387	End	8404
Name	OJ000329_08.0418.C21.o1.ts	Method	TBLASTX:Soybean
Start	1023	End	1571
GI	none	Score	107
Exons	1023..1190, 1029..1190, 1033..1191, 1282..1410, 1282..1410, 1502..1570, 1503..1571		

Seq. No.	51074	Seq. ID	OJ000329_08.0418.C21
Gene No.	108265	Strand	-
Start	4387	End	8404
Name	OJ000329_08.0418.C21.o1.tc	Method	TBLASTX:Cress
Start	1282	End	1703
GI	none	Score	55
Exons	1282..1410, 1283..1369, 1351..1410, 1502..1702, 1503..1703		

Seq. No.	51074	Seq. ID	OJ000329_08.0418.C21
Gene No.	108265	Strand	-
Start	4387	End	8404
Name	OJ000329_08.0418.C21.o2.np	Method	AAT/NAP

Start	4387	End	8404
GI	1245061	Score	156
Exons	4387..4554, 8074..8404		
GI Descrip.	(U46069) fertilin alpha subunit [Oryctolagus cuniculus]		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o1.gs	Method	GENSCAN
Start	1713	End	9638
GI	none	Score	.62
Exons	1713..1766, 2415..2569, 2963..3077, 3144..3329, 3837..3908, 4069..4728, 5798..8725, 9421..9480, 9576..9638		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o1.tm	Method	TBLASTX:Maize
Start	2447	End	5188
GI	none	Score	169
Exons	2447..2575, 2448..2564, 2492..2569, 2960..3028, 2961..3047, 2964..3047, 3143..3331, 3144..3329, 3144..3332, 3145..3330, 3832..3909, 3837..3908, 3837..3917, 3847..3909, 4061..4630, 4062..4631, 4062..4646, 4066..4647, 4066..4647, 4638..4757, 4638..4883, 4639..4884, 4651..4884, 4652..4891, 5087..5188		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o1.np	Method	AAT/NAP
Start	2490	End	4881
GI	7523680	Score	1144
Exons	2490..2569, 2963..3065, 3144..3329, 4069..4881		
GI Descrip.	(AC009526) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o3.ts	Method	TBLASTX:Soybean
Start	3249	End	4260
GI	none	Score	100
Exons	3249..3329, 3836..3904, 3843..3908, 3843..3917, 4066..4260, 4068..4259		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o1.tc	Method	TBLASTX:Cress
Start	4061	End	4422
GI	none	Score	483
Exons	4061..4294, 4066..4422, 4068..4406		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o1.ts	Method	TBLASTX:Soybean
Start	4261	End	4716

GI	none	Score	457
Exons	4261..4629, 4261..4599, 4263..4625, 4672..4716, 4674..4712		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o2.tc	Method	TBLASTX:Cress
Start	7154	End	7456
GI	none	Score	188
Exons	7154..7456		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o2.tm	Method	TBLASTX:Maize
Start	7154	End	7543
GI	none	Score	257
Exons	7154..7540, 7180..7530, 7208..7543		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o2.ts	Method	TBLASTX:Soybean
Start	7211	End	7762
GI	none	Score	73
Exons	7211..7285, 7213..7530, 7307..7534, 7580..7762		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o1.tw	Method	TBLASTX:Wheat
Start	7385	End	7813
GI	none	Score	115
Exons	7385..7558, 7577..7813		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o3.tm	Method	TBLASTX:Maize
Start	8060	End	8488
GI	none	Score	224
Exons	8060..8488, 8090..8257		

Seq. No.	51075	Seq. ID	OJ000329_08.0418.C22
Gene No.	108266	Strand	+
Start	1713	End	10000
Name	OJ000329_08.0418.C22.o1.gp	Method	AAT/GAP
Start	9308	End	10000
GI	2280879	Score	804
Exons	9308..9343, 9421..9480, 9639..10000		

Seq. No.	51076	Seq. ID	OJ000329_09.0419.C1
Gene No.	108267	Strand	-
Start	221	End	749
Name	OJ000329_09.0419.C1.o1.gs	Method	GENSCAN
Start	221	End	749
GI	none	Score	.51

Exons 221..361, 468..749

Seq. No.	51077	Seq. ID	OJ000329_09.0419.C3
Gene No.	108268	Strand	+
Start	66	End	671
Name	OJ000329_09.0419.C3.o1.gs	Method	GENSCAN
Start	66	End	671
GI	none	Score	.66
Exons	66..146, 468..671		

Seq. No.	51077	Seq. ID	OJ000329_09.0419.C3
Gene No.	108269	Strand	-
Start	1	End	701
Name	OJ000329_09.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	701
GI	7489446	Score	370
Exons	1..701		
GI Descrip.	protein kinase Xa21 (EC 2.7.1.-) D, receptor type - long-staminate rice gi 2586081 gb AAB82753.1 (U72725) receptor kinase-like protein [Oryza longistaminata]		

Seq. No.	51077	Seq. ID	OJ000329_09.0419.C3
Gene No.	108269	Strand	-
Start	1	End	701
Name	OJ000329_09.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	121	End	425
GI	none	Score	52
Exons	121..243, 139..240, 140..238, 246..425, 246..386, 247..321, 252..383		

Seq. No.	51077	Seq. ID	OJ000329_09.0419.C3
Gene No.	108269	Strand	-
Start	1	End	701
Name	OJ000329_09.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	237	End	664
GI	none	Score	48
Exons	237..341, 243..377, 274..378, 380..517, 593..664		

Seq. No.	51078	Seq. ID	OJ000329_09.0419.C5
Gene No.	108270	Strand	+
Start	1521	End	1637
Name	OJ000329_09.0419.C5.o1.gs	Method	GENSCAN
Start	1521	End	1637
GI	none	Score	.53
Exons	1521..1637		

Seq. No.	51078	Seq. ID	OJ000329_09.0419.C5
Gene No.	108271	Strand	+
Start	5222	End	6129
Name	OJ000329_09.0419.C5.o3.gs	Method	GENSCAN
Start	5222	End	6129
GI	none	Score	.67
Exons	5222..5444, 5697..5790, 5871..6129		

Seq. No.	51078	Seq. ID	OJ000329_09.0419.C5
Gene No.	108272	Strand	-
Start	2857	End	4186

Name	OJ000329_09.0419.C5.o2.gs	Method	GENSCAN
Start	2857	End	4186
GI	none	Score	.41
Exons	2857..2973, 3503..3691, 3881..3939, 4138..4186		
Seq. No.	51079	Seq. ID	OJ000329_09.0419.C6
Gene No.	108273	Strand	+
Start	906	End	1645
Name	OJ000329_09.0419.C6.o1.gs	Method	GENSCAN
Start	906	End	1645
GI	none	Score	.73
Exons	906..1019, 1107..1183, 1379..1505, 1510..1645		
Seq. No.	51080	Seq. ID	OJ000329_09.0419.C8
Gene No.	108274	Strand	+
Start	1	End	716
Name	OJ000329_09.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	716
GI	6522540	Score	448
Exons	1..716		
GI Descrip.	(AL132955) receptor-kinase like protein [Arabidopsis thaliana]		
Seq. No.	51080	Seq. ID	OJ000329_09.0419.C8
Gene No.	108274	Strand	+
Start	1	End	716
Name	OJ000329_09.0419.C8.o1.gs	Method	GENSCAN
Start	38	End	655
GI	none	Score	.49
Exons	38..655		
Seq. No.	51080	Seq. ID	OJ000329_09.0419.C8
Gene No.	108274	Strand	+
Start	1	End	716
Name	OJ000329_09.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	74	End	616
GI	none	Score	75
Exons	74..163, 124..156, 178..369, 182..370, 407..616, 407..571, 418..573		
Seq. No.	51080	Seq. ID	OJ000329_09.0419.C8
Gene No.	108274	Strand	+
Start	1	End	716
Name	OJ000329_09.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	74	End	349
GI	none	Score	279
Exons	74..349, 79..348		
Seq. No.	51080	Seq. ID	OJ000329_09.0419.C8
Gene No.	108274	Strand	+
Start	1	End	716
Name	OJ000329_09.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	209	End	652
GI	none	Score	188
Exons	209..382, 226..378, 407..652, 407..517, 409..561		
Seq. No.	51080	Seq. ID	OJ000329_09.0419.C8
Gene No.	108274	Strand	+

Start 1
 Name OJ000329_09.0419.C8.o1.tw
 Start 335
 GI none
 Exons 335..568, 424..567

End 716
 Method TBLASTX:Wheat
 End 568
 Score 169

Seq. No. 51081
 Gene No. 108275
 Start 178
 Name OJ000329_09.0419.C9.o1.gs
 Start 178
 GI none
 Exons 178..246, 319..475, 575..645

Seq. ID OJ000329_09.0419.C9
 Strand +
 End 869
 Method GENSCAN
 End 645
 Score .65

Seq. No. 51081
 Gene No. 108275
 Start 178
 Name OJ000329_09.0419.C9.o1.tm
 Start 214
 GI none
 Exons 214..267, 217..267, 219..281, 273..398, 277..624, 283..630, 543..629

Seq. ID OJ000329_09.0419.C9
 Strand +
 End 869
 Method TBLASTX:Maize
 End 630
 Score 66

Seq. No. 51081
 Gene No. 108275
 Start 178
 Name OJ000329_09.0419.C9.o1.np
 Start 313
 GI 7489803
 Exons 313..869

Seq. ID OJ000329_09.0419.C9
 Strand +
 End 869
 Method AAT/NAP
 End 869
 Score 554

GI Descrip. pol protein homolog - maize retrotransposon Opie-2
 gi|3645899|gb|AAC49502.1| (U68408) 5' end not determined
 experimentally [Zea mays]

Seq. No. 51082
 Gene No. 108276
 Start 1
 Name OJ000329_09.0419.C12.o1.np
 Start 1
 GI 5042463
 Exons 1..32, 122..323, 987..1126, 1178..1255
 GI Descrip. (AC007789) unknown protein [Oryza sativa]

Seq. ID OJ000329_09.0419.C12
 Strand +
 End 2060
 Method AAT/NAP
 End 1255
 Score 95

Seq. No. 51082
 Gene No. 108276
 Start 1
 Name OJ000329_09.0419.C12.o2.np
 Start 1
 GI 7340868
 Exons 1..85, 1150..1269, 2017..2060
 GI Descrip. (AP001551) hypothetical protein [Oryza sativa]

Seq. ID OJ000329_09.0419.C12
 Strand +
 End 2060
 Method AAT/NAP
 End 2060
 Score 35

Seq. No. 51083
 Gene No. 108277
 Start 208
 Name OJ000329_09.0419.C13.o1.gs
 Start 208

Seq. ID OJ000329_09.0419.C13
 Strand -
 End 326
 Method GENSCAN
 End 326

GI	none	Score	.89
Exons	208..326		

Seq. No.	51084	Seq. ID	OJ000329_09.0419.C15
Gene No.	108278	Strand	-
Start	1	End	179
Name	OJ000329_09.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	179
GI	7523502	Score	117
Exons	1..25, 86..179		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	51085	Seq. ID	OJ000329_09.0419.C16
Gene No.	108279	Strand	-
Start	1058	End	1360
Name	OJ000329_09.0419.C16.o1.gs	Method	GENSCAN
Start	1058	End	1360
GI	none	Score	.61
Exons	1058..1360		

Seq. No.	51086	Seq. ID	OJ000329_09.0419.C17
Gene No.	108280	Strand	+
Start	1	End	104
Name	OJ000329_09.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	104
GI	7485326	Score	102
Exons	1..104		
GI Descrip.	hypothetical protein F10M10.90 - Arabidopsis thaliana gi 4455177 emb CAB36709.1 (AL035521) putative protein [Arabidopsis thaliana] gi 7270382 emb CAB80149.1 (AL161585) putative protein [Arabidopsis thaliana]		

Seq. No.	51087	Seq. ID	OJ000329_09.0419.C19
Gene No.	108281	Strand	-
Start	317	End	645
Name	OJ000329_09.0419.C19.o1.gs	Method	GENSCAN
Start	317	End	645
GI	none	Score	.62
Exons	317..496, 622..645		

Seq. No.	51088	Seq. ID	OJ000329_09.0419.C20
Gene No.	108282	Strand	+
Start	263	End	458
Name	OJ000329_09.0419.C20.o1.gs	Method	GENSCAN
Start	263	End	458
GI	none	Score	.76
Exons	263..332, 382..458		

Seq. No.	51089	Seq. ID	OJ000329_09.0419.C21
Gene No.	108283	Strand	-
Start	149	End	487
Name	OJ000329_09.0419.C21.o1.gp	Method	AAT/GAP
Start	149	End	487
GI	none	Score	592
Exons	149..487		

Seq. No.	51090	Seq. ID	OJ000329_09.0419.C28
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Gene No.	108284	Strand	-
Start	1	End	736
Name	OJ000329_09.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	736
GI	4680203	Score	503
Exons	1..736		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51090	Seq. ID	OJ000329_09.0419.C28
Gene No.	108284	Strand	-
Start	1	End	736
Name	OJ000329_09.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	13	End	295
GI	none	Score	70
Exons	13..294, 65..295		

Seq. No.	51090	Seq. ID	OJ000329_09.0419.C28
Gene No.	108284	Strand	-
Start	1	End	736
Name	OJ000329_09.0419.C28.o1.gs	Method	GENSCAN
Start	42	End	710
GI	none	Score	.48
Exons	42..141, 456..710		

Seq. No.	51090	Seq. ID	OJ000329_09.0419.C28
Gene No.	108284	Strand	-
Start	1	End	736
Name	OJ000329_09.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	55	End	617
GI	none	Score	48
Exons	55..180, 74..181, 193..282, 194..283, 334..426, 435..617		

Seq. No.	51090	Seq. ID	OJ000329_09.0419.C28
Gene No.	108284	Strand	-
Start	1	End	736
Name	OJ000329_09.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	334	End	608
GI	none	Score	62
Exons	334..426, 423..608, 450..608		

Seq. No.	51091	Seq. ID	OJ000329_09.0419.C29
Gene No.	108285	Strand	+
Start	3164	End	5251
Name	OJ000329_09.0419.C29.o1.np	Method	AAT/NAP
Start	3164	End	5251
GI	4587526	Score	359
Exons	3164..3793, 5232..5251		
GI Descrip.	(AC007060) Strong similarity to F19I3.2 gi 3033375 putative berberine bridge enzyme from Arabidopsis thaliana BAC gb AC004238. ESTs gb F19886, gb Z30784 and gb Z30785 come from this gene		

Seq. No.	51091	Seq. ID	OJ000329_09.0419.C29
Gene No.	108286	Strand	-
Start	3765	End	3890
Name	OJ000329_09.0419.C29.o1.tc	Method	TBLASTX:Cress
Start	3269	End	3634

GI	none	Score	250
Exons	3269..3346, 3350..3580, 3364..3540, 3410..3541, 3572..3634		
Seq. No.	51091	Seq. ID	OJ000329_09.0419.C29
Gene No.	108286	Strand	-
Start	3765	End	3890
Name	OJ000329_09.0419.C29.o1.ts	Method	TBLASTX:Soybean
Start	3290	End	3789
GI	none	Score	298
Exons	3290..3322, 3350..3637, 3364..3597, 3658..3789		
Seq. No.	51091	Seq. ID	OJ000329_09.0419.C29
Gene No.	108286	Strand	-
Start	3765	End	3890
Name	OJ000329_09.0419.C29.o2.np	Method	AAT/NAP
Start	3765	End	3890
GI	7451380	Score	51
Exons	3765..3890		
GI Descrip.	chitinase (EC 3.2.1.14) III C10923 - rice gi 2696233 dbj BAA23812.1 (D55714) chitinase [Oryza sativa] gi 4884512 dbj BAA77774.1 (AB027421) class III chitinase homologue (OsChib3H-b). [Oryza sativa] gi 4884514 dbj BAA77775.1 (AB027422) class III chitinase homologue (OsChib3H-b) [Oryza sativa]		
Seq. No.	51092	Seq. ID	OJ000329_09.0419.C30
Gene No.	108287	Strand	-
Start	786	End	840
Name	OJ000329_09.0419.C30.o1.gs	Method	GENSCAN
Start	786	End	840
GI	none	Score	.81
Exons	786..840		
Seq. No.	51093	Seq. ID	OJ000329_09.0419.C31
Gene No.	108288	Strand	+
Start	921	End	1094
Name	OJ000329_09.0419.C31.o1.gs	Method	GENSCAN
Start	921	End	1094
GI	none	Score	.92
Exons	921..1094		
Seq. No.	51093	Seq. ID	OJ000329_09.0419.C31
Gene No.	108289	Strand	+
Start	2451	End	2657
Name	OJ000329_09.0419.C31.o2.gs	Method	GENSCAN
Start	2451	End	2657
GI	none	Score	.86
Exons	2451..2657		
Seq. No.	51093	Seq. ID	OJ000329_09.0419.C31
Gene No.	108290	Strand	-
Start	3908	End	4642
Name	OJ000329_09.0419.C31.o1.gp	Method	AAT/GAP
Start	3908	End	4188
GI	none	Score	510
Exons	3908..4188		

Seq. No.	51093	Seq. ID	OJ000329_09.0419.C31
Gene No.	108290	Strand	-
Start	3908	End	4642
Name	OJ000329_09.0419.C31.o1.np	Method	AAT/NAP
Start	4055	End	4603
GI	4567207	Score	250
Exons	4055..4603		
GI Descrip.	(AC007168) unknown protein [Arabidopsis thaliana]		

Seq. No.	51093	Seq. ID	OJ000329_09.0419.C31
Gene No.	108290	Strand	-
Start	3908	End	4642
Name	OJ000329_09.0419.C31.o2.gp	Method	AAT/GAP
Start	4152	End	4642
GI	none	Score	922
Exons	4152..4642		

Seq. No.	51093	Seq. ID	OJ000329_09.0419.C31
Gene No.	108291	Strand	-
Start	7323	End	9375
Name	OJ000329_09.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	4118	End	4495
GI	none	Score	43
Exons	4118..4201, 4133..4186, 4223..4390, 4224..4367, 4391..4495		

Seq. No.	51093	Seq. ID	OJ000329_09.0419.C31
Gene No.	108291	Strand	-
Start	7323	End	9375
Name	OJ000329_09.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	4223	End	4501
GI	none	Score	114
Exons	4223..4390, 4224..4391, 4388..4501		

Seq. No.	51093	Seq. ID	OJ000329_09.0419.C31
Gene No.	108291	Strand	-
Start	7323	End	9375
Name	OJ000329_09.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	4223	End	4501
GI	none	Score	108
Exons	4223..4390, 4224..4391, 4388..4501		

Seq. No.	51093	Seq. ID	OJ000329_09.0419.C31
Gene No.	108291	Strand	-
Start	7323	End	9375
Name	OJ000329_09.0419.C31.o4.gs	Method	GENSCAN
Start	7323	End	9375
GI	none	Score	.72
Exons	7323..7421, 9239..9375		

Seq. No.	51094	Seq. ID	OJ000329_09.0419.C32
Gene No.	108292	Strand	+
Start	2211	End	4176
Name	OJ000329_09.0419.C32.o1.np	Method	AAT/NAP
Start	2211	End	4176
GI	5852180	Score	500
Exons	2211..2264, 3244..3362, 3414..3786, 4109..4176		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51094	Seq. ID	OJ000329_09.0419.C32
Gene No.	108293	Strand	-
Start	2113	End	2494
Name	OJ000329_09.0419.C32.o1.gp	Method	AAT/GAP
Start	2113	End	2494
GI	uC-osflcyp033a04b1	Score	663
Exons	2113..2494		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51094	Seq. ID	OJ000329_09.0419.C32
Gene No.	108294	Strand	-
Start	3622	End	5018
Name	OJ000329_09.0419.C32.o2.np	Method	AAT/NAP
Start	3622	End	5018
GI	5091513	Score	241
Exons	3622..3691, 4592..5018		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	51094	Seq. ID	OJ000329_09.0419.C32
Gene No.	108295	Strand	-
Start	6862	End	7326
Name	OJ000329_09.0419.C32.o2.gs	Method	GENSCAN
Start	6862	End	7326
GI	none	Score	.73
Exons	6862..6976, 7069..7264, 7272..7326		

Seq. No.	51095	Seq. ID	OJ000329_09.0419.C33
Gene No.	108296	Strand	+
Start	3810	End	5562
Name	OJ000329_09.0419.C33.o1.np	Method	AAT/NAP
Start	3791	End	5541
GI	4218010	Score	1389
Exons	3791..3903, 4136..5541		
GI Descrip.	(AC006135) putative sugar transporter [Arabidopsis thaliana]		

Seq. No.	51095	Seq. ID	OJ000329_09.0419.C33
Gene No.	108296	Strand	+
Start	3810	End	5562
Name	OJ000329_09.0419.C33.o2.gs	Method	GENSCAN
Start	3810	End	5562
GI	none	Score	.78
Exons	3810..3903, 4136..5562		

Seq. No.	51095	Seq. ID	OJ000329_09.0419.C33
Gene No.	108297	Strand	-
Start	213	End	2187
Name	OJ000329_09.0419.C33.o1.gs	Method	GENSCAN
Start	213	End	2187
GI	none	Score	.53
Exons	213..341, 1189..1314, 2178..2187		

Seq. No.	51095	Seq. ID	OJ000329_09.0419.C33
Gene No.	108298	Strand	
Start	4134	End	5456
Name	OJ000329_09.0419.C33.o1.tc	Method	TBLASTX:Cress

Start	4134	End	4395
GI	none	Score	63
Exons	4134..4199, 4134..4349, 4135..4395		

Seq. No.	51095	Seq. ID	OJ000329_09.0419.C33
Gene No.	108298	Strand	
Start	4134	End	5456
Name	OJ000329_09.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	4134	End	5456
GI	none	Score	65
Exons	4134..4184, 4134..4352, 4135..4563, 4410..4655, 4621..4737, 4801..5208, 4818..5117, 5148..5456, 5149..5337		

Seq. No.	51095	Seq. ID	OJ000329_09.0419.C33
Gene No.	108298	Strand	
Start	4134	End	5456
Name	OJ000329_09.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	4135	End	5372
GI	none	Score	479
Exons	4135..4737, 4143..4346, 4407..4655, 4636..4737, 4827..5114, 4831..5169, 5145..5372, 5146..5343		

Seq. No.	51095	Seq. ID	OJ000329_09.0419.C33
Gene No.	108298	Strand	
Start	4134	End	5456
Name	OJ000329_09.0419.C33.o2.tc	Method	TBLASTX:Cress
Start	4519	End	4944
GI	none	Score	39
Exons	4519..4563, 4533..4655, 4621..4737, 4801..4944, 4824..4940, 4837..4944		

Seq. No.	51096	Seq. ID	OJ000329_09.0419.C34
Gene No.	108299	Strand	-
Start	42	End	1209
Name	OJ000329_09.0419.C34.o1.gs	Method	GENSCAN
Start	42	End	1209
GI	none	Score	.44
Exons	42..145, 262..389, 958..1209		

Seq. No.	51097	Seq. ID	OJ000329_09.0419.C35
Gene No.	108300	Strand	+
Start	1351	End	1858
Name	OJ000329_09.0419.C35.o1.gp	Method	AAT/GAP
Start	1351	End	1858
GI	576771	Score	770
Exons	1351..1621, 1648..1858		
GI Descrip.	576771/gb U16256 OSU16256 0.0e+00 Oryza sativa cone SRI sucrose-regulated mRNA, 3'-end sequence		

Seq. No.	51098	Seq. ID	OJ000329_09.0419.C38
Gene No.	108301	Strand	+
Start	39	End	971
Name	OJ000329_09.0419.C38.o2.np	Method	AAT/NAP
Start	39	End	971
GI	6721507	Score	95
Exons	39..131, 399..563, 843..971		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	51098	Seq. ID	OJ000329_09.0419.C38
Gene No.	108302	Strand	-
Start	1	End	2253
Name	OJ000329_09.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	1414
GI	4185309	Score	116
Exons	1..128, 1360..1414		
GI Descrip.	(AF090446) unknown [Zea mays]		

Seq. No.	51098	Seq. ID	OJ000329_09.0419.C38
Gene No.	108302	Strand	-
Start	1	End	2253
Name	OJ000329_09.0419.C38.o3.np	Method	AAT/NAP
Start	1	End	2253
GI	7363274	Score	229
Exons	1..15, 2000..2253		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F17A8; putative protein. (AL049482) [Oryza sativa]		

Seq. No.	51099	Seq. ID	OJ000329_09.0419.C39
Gene No.	108303	Strand	+
Start	86	End	1564
Name	OJ000329_09.0419.C39.o1.gs	Method	GENSCAN
Start	86	End	1564
GI	none	Score	.74
Exons	86..151, 337..598, 1230..1564		

Seq. No.	51100	Seq. ID	OJ000329_09.0419.C40
Gene No.	108304	Strand	-
Start	1896	End	5277
Name	OJ000329_09.0419.C40.o1.np	Method	AAT/NAP
Start	1896	End	5277
GI	7339707	Score	90
Exons	1896..1949, 3121..3281, 4039..4313, 4981..5277		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	51101	Seq. ID	OJ000329_09.0419.C41
Gene No.	108305	Strand	+
Start	1811	End	2265
Name	OJ000329_09.0419.C41.o1.np	Method	AAT/NAP
Start	1811	End	2265
GI	4262245	Score	212
Exons	1811..2265		
GI Descrip.	(AC006200) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51102	Seq. ID	OJ000329_09.0419.C42
Gene No.	108306	Strand	+
Start	259	End	680
Name	OJ000329_09.0419.C42.o1.gp	Method	AAT/GAP
Start	259	End	643
GI	37264_1.R1084	Score	682
Exons	259..643		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	51102	Seq. ID	OJ000329_09.0419.C42
Gene No.	108306	Strand	+
Start	259	End	680
Name	OJ000329_09.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	273	End	680
GI	none	Score	103
Exons	273..401, 279..401, 292..402, 292..402, 445..486, 446..487, 452..490, 492..539, 494..541, 551..646, 552..680, 558..650		

Seq. No.	51103	Seq. ID	OJ000309_09.0419.C1
Gene No.	108307	Strand	+
Start	942	End	1005
Name	OJ000309_09.0419.C1.o1.gs	Method	GENSCAN
Start	942	End	1005
GI	none	Score	.59
Exons	942..1005		

Seq. No.	51104	Seq. ID	OJ000309_09.0419.C3
Gene No.	108308	Strand	-
Start	1	End	873
Name	OJ000309_09.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	640
GI	6759439	Score	203
Exons	1..113, 279..640		
GI Descrip.	(AL137189) putative protein [Arabidopsis thaliana]		

Seq. No.	51104	Seq. ID	OJ000309_09.0419.C3
Gene No.	108308	Strand	-
Start	1	End	873
Name	OJ000309_09.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	26	End	461
GI	none	Score	41
Exons	26..67, 59..154, 60..161, 65..172, 73..168, 163..375, 171..341, 173..343, 362..433, 363..434, 364..435, 364..441, 418..459, 435..461, 437..460		

Seq. No.	51104	Seq. ID	OJ000309_09.0419.C3
Gene No.	108308	Strand	-
Start	1	End	873
Name	OJ000309_09.0419.C3.o1.gp	Method	AAT/GAP
Start	108	End	553
GI	none	Score	856
Exons	108..553		

Seq. No.	51104	Seq. ID	OJ000309_09.0419.C3
Gene No.	108308	Strand	-
Start	1	End	873
Name	OJ000309_09.0419.C3.o1.gs	Method	GENSCAN
Start	123	End	873
GI	none	Score	.96
Exons	123..640, 863..873		

Seq. No.	51104	Seq. ID	OJ000309_09.0419.C3
Gene No.	108308	Strand	-
Start	1	End	873
Name	OJ000309_09.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	193	End	640

GI	none	Score	62
Exons	193..399, 320..412, 427..639, 448..639, 485..640		
Seq. No.	51104	Seq. ID	OJ000309_09.0419.C3
Gene No.	108308	Strand	-
Start	1	End	873
Name	OJ000309_09.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	475	End	645
GI	none	Score	169
Exons	475..639, 499..645		
Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108309	Strand	+
Start	939	End	2255
Name	OJ000309_09.0419.C4.o1.gs	Method	GENSCAN
Start	939	End	2255
GI	none	Score	.76
Exons	939..996, 1234..1387, 1504..1541, 2203..2255		
Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o2.gs	Method	GENSCAN
Start	3160	End	9162
GI	none	Score	.89
Exons	3160..3183, 3752..3883, 4323..4535, 5469..5741, 5834..5920, 6049..6243, 6344..6472, 6574..6696, 6792..6963, 7356..7645, 9034..9162		
Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o1.np	Method	AAT/NAP
Start	4269	End	9305
GI	4063751	Score	761
Exons	4269..4535, 5150..5257, 5469..5741, 6049..6243, 6344..6442, 6553..6717, 6813..6963, 7356..7645, 9034..9305		
GI Descrip.	(AC005851) putative ABC transporter [Arabidopsis thaliana]		
Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	4281	End	4557
GI	none	Score	62
Exons	4281..4538, 4305..4355, 4390..4557, 4405..4539		
Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o3.tc	Method	TBLASTX:Cress
Start	4284	End	4481
GI	none	Score	51
Exons	4284..4454, 4437..4481		
Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-

Start	3160	End	9305
Name	OJ000309_09.0419.C4.o4.ts	Method	TBLASTX:Soybean
Start	4284	End	4445
GI	none	Score	79
Exons	4284..4445, 4327..4443		

Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	4425	End	5672
GI	none	Score	95
Exons	4425..4538, 5150..5257, 5472..5672, 5476..5622		

Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	4483	End	6135
GI	none	Score	94
Exons	4483..4557, 4491..4538, 5150..5260, 5151..5258, 5156..5263, 5461..5541, 5469..5546, 5469..5744, 5470..5718, 5640..5759, 5829..5921, 5831..5920, 5832..5921, 6038..6133, 6043..6135		

Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	5168	End	6906
GI	none	Score	72
Exons	5168..5260, 5184..5258, 5461..5541, 5469..5546, 5469..5744, 5470..5718, 5643..5744, 5829..5921, 5830..5952, 5831..5920, 6043..6243, 6050..6244, 6344..6469, 6348..6470, 6410..6478, 6569..6697, 6571..6699, 6572..6697, 6589..6699, 6792..6905, 6799..6906		

Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o1.gp	Method	AAT/GAP
Start	5213	End	6640
GI	47076_1.R1084	Score	1431
Exons	5213..5257, 5469..5741, 5834..5920, 6049..6243, 6344..6472, 6574..6640		

GI Descrip. '4063751 4.0e-21 (AC005851) putative white protein [Arabidopsis thaliana] >gi_4510409_gb_AAD21495.1_ (AC006929) putative white protein [Arabidopsis thaliana]'

Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	5589	End	6962
GI	none	Score	118
Exons	5589..5609, 5616..5744, 5617..5718, 5634..5744, 5829..5921, 5830..5922, 5831..5920, 6019..6243, 6050..6241, 6347..6472, 6563..6697, 6574..6699, 6580..6699, 6798..6962, 6799..6960		

Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	6136	End	7436
GI	none	Score	115
Exons	6136..6243, 6143..6241, 6344..6472, 6411..6464, 6563..6697, 6574..6699, 6600..6698, 6798..6965, 6799..6966, 6811..6966, 6812..6967, 7356..7436, 7358..7435		

Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	6912	End	7650
GI	none	Score	90
Exons	6912..6965, 6913..6972, 7356..7649, 7358..7648, 7531..7650		

Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o2.tc	Method	TBLASTX:Cress
Start	7356	End	9303
GI	none	Score	85
Exons	7356..7427, 7358..7426, 7414..7641, 7425..7640, 7427..7645, 9034..9192, 9035..9190, 9277..9303		

Seq. No.	51105	Seq. ID	OJ000309_09.0419.C4
Gene No.	108310	Strand	-
Start	3160	End	9305
Name	OJ000309_09.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	7437	End	7645
GI	none	Score	177
Exons	7437..7640, 7439..7645		

Seq. No.	51106	Seq. ID	OJ000309_09.0419.C5
Gene No.	108311	Strand	+
Start	2949	End	4467
Name	OJ000309_09.0419.C5.o1.gs	Method	GENSCAN
Start	2949	End	4467
GI	none	Score	.94
Exons	2949..3036, 4361..4467		

Seq. No.	51106	Seq. ID	OJ000309_09.0419.C5
Gene No.	108311	Strand	+
Start	2949	End	4467
Name	OJ000309_09.0419.C5.o2.gp	Method	AAT/GAP
Start	3573	End	3631
GI	2312838	Score	73
Exons	3573..3631		
GI Descrip.	1420932/gb U61383 ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	51106	Seq. ID	OJ000309_09.0419.C5
Gene No.	108312	Strand	+
Start	5289	End	5548

Name	OJ000309_09.0419.C5.o3.gp	Method	AAT/GAP
Start	5289	End	5548
GI	LIB3431-010-P1-N1-F11	Score	453
Exons	5289..5548		
GI Descrip.	'287403/dbj D10838 RICSBE1 1.0e-111 Rice gene for starch branching enzyme'		

Seq. No.	51106	Seq. ID	OJ000309_09.0419.C5
Gene No.	108313	Strand	-
Start	1339	End	1424
Name	OJ000309_09.0419.C5.o1.gp	Method	AAT/GAP
Start	1339	End	1424
GI	5867_1.R1084	Score	113
Exons	1339..1424		
GI Descrip.	'464986/sp P35132 UBC9_ARATH 5.0e-58 UBIQUITIN-CONJUGATING ENZYME E2-17 KD 9 (UBIQUITIN-PROTEIN LIGASE 9) (UBIQUITIN CARRIER PROTEIN 9) (UBCAT4B) >gi_421857_pir_S32674 ubiquitin--protein ligase (EC 6.3.2.19) UBC9 - Arabidopsis thaliana >gi_297884_emb_CAA78714_ (Z14990) ubiquitin conjugating enzyme homolog [Arabidopsis thaliana] >gi_349211 (L00639) ubiquitin conjugating enzyme [Arabidopsis]		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108314	Strand	+
Start	37	End	180
Name	OJ000309_09.0419.C6.o1.gs	Method	GENSCAN
Start	37	End	180
GI	none	Score	.6
Exons	37..180		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108315	Strand	+
Start	4774	End	8046
Name	OJ000309_09.0419.C6.o3.gs	Method	GENSCAN
Start	4774	End	8046
GI	none	Score	.4
Exons	4774..4927, 5270..5394, 5530..7564, 7826..8046		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108316	Strand	+
Start	16929	End	25042
Name	OJ000309_09.0419.C6.o5.gs	Method	GENSCAN
Start	16929	End	23737
GI	none	Score	.55
Exons	16929..16995, 18513..18686, 19933..20064, 20177..20413, 20736..20796, 20877..21045, 21095..21345, 21445..21646, 21724..21809, 22104..22195, 23496..23737		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108316	Strand	+
Start	16929	End	25042
Name	OJ000309_09.0419.C6.o1.gp	Method	AAT/GAP
Start	20467	End	21857
GI	17569_1.R1084	Score	1062
Exons	20467..20564, 21128..21345, 21445..21647, 21726..21857		
GI Descrip.	'4206196/gb AAD11584.1 AAD11584 3.0e-29 (AF071527) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108316	Strand	+
Start	16929	End	25042
Name	OJ000309_09.0419.C6.o2.np	Method	AAT/NAP
Start	20484	End	25042
GI	4206196	Score	577
Exons	20484..20564, 21128..21345, 21442..21646, 21724..21809, 22104..22195, 23502..23753, 24917..25042		
GI Descrip.	(AF071527) hypothetical protein [Arabidopsis thaliana] gi 7270212 emb CAB77827.1 (AL161496) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108316	Strand	+
Start	16929	End	25042
Name	OJ000309_09.0419.C6.o3.gp	Method	AAT/GAP
Start	24336	End	24788
GI	none	Score	878
Exons	24336..24788		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108317	Strand	+
Start	26619	End	27708
Name	OJ000309_09.0419.C6.o7.gs	Method	GENSCAN
Start	26619	End	27708
GI	none	Score	.54
Exons	26619..27539, 27544..27708		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108318	Strand	+
Start	28027	End	28471
Name	OJ000309_09.0419.C6.o5.gp	Method	AAT/GAP
Start	28027	End	28471
GI	none	Score	874
Exons	28027..28471		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108319	Strand	-
Start	887	End	4836
Name	OJ000309_09.0419.C6.o2.gs	Method	GENSCAN
Start	887	End	4188
GI	none	Score	.86
Exons	887..1000, 1347..1475, 1640..1729, 1855..1981, 2335..2399, 2652..2771, 2965..3036, 3133..3183, 3632..3739, 3951..4040, 4168..4188		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108319	Strand	-
Start	887	End	4836
Name	OJ000309_09.0419.C6.o1.np	Method	AAT/NAP
Start	1147	End	4836
GI	3687224	Score	907
Exons	1147..1250, 1347..1475, 1640..1729, 1855..1934, 2146..2226, 2339..2399, 2652..2771, 2965..3036, 3258..3376, 3632..3739, 3951..4020, 4712..4836		
GI Descrip.	(AC005169) putative N-acetyl-gamma-glutamyl-phosphate reductase		

[Arabidopsis thaliana]

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108320	Strand	-
Start	8343	End	13552
Name	OJ000309_09.0419.C6.o4.gs	Method	GENSCAN
Start	8343	End	13552
GI	none	Score	.4
Exons	8343..8540, 13080..13166, 13288..13434, 13442..13552		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108321	Strand	-
Start	23505	End	24089
Name	OJ000309_09.0419.C6.o2.gp	Method	AAT/GAP
Start	23505	End	24089
GI	2559 1.R1084	Score	1126
Exons	23505..24089		
GI Descrip.	'2809244 4.0e-13 (AC002560) F21B7.13 [Arabidopsis thaliana]'		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108322	Strand	-
Start	24851	End	28228
Name	OJ000309_09.0419.C6.o6.gs	Method	GENSCAN
Start	24851	End	25945
GI	none	Score	.87
Exons	24851..24959, 25063..25123, 25215..25386, 25877..25945		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108322	Strand	-
Start	24851	End	28228
Name	OJ000309_09.0419.C6.o3.np	Method	AAT/NAP
Start	24860	End	28228
GI	6957732	Score	1015
Exons	24860..24959, 25063..25123, 25215..25386, 25877..26026, 26444..26566, 26688..26754, 26806..27116, 27171..27381, 28113..28228		
GI Descrip.	(AC021640) unknown protein [Arabidopsis thaliana]		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108322	Strand	-
Start	24851	End	28228
Name	OJ000309_09.0419.C6.o4.gp	Method	AAT/GAP
Start	25091	End	26052
GI	LIB3431-039-P1-K2-E12	Score	627
Exons	25091..25123, 25215..25386, 25877..26052		
GI Descrip.	'1653625/dbj BAA18537 1.0e-09 (D90915) hypothetical protein [Synechocystis sp.]'		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o5.tm	Method	TBLASTX:Maize
Start	1113	End	1449
GI	none	Score	115
Exons	1113..1202, 1129..1236, 1133..1210, 1208..1249, 1209..1250, 1209..1250, 1344..1445, 1344..1448, 1348..1449, 1348..1449		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	1710	End	2766
GI	none	Score	41
Exons	1710..1730, 1710..1730, 1852..1929, 1855..1932, 1856..1933, 2146..2229, 2147..2227, 2322..2417, 2324..2416, 2337..2423, 2338..2421, 2338..2472, 2652..2765, 2652..2765, 2653..2766		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o6.tm	Method	TBLASTX:Maize
Start	2146	End	3162
GI	none	Score	84
Exons	2146..2232, 2147..2227, 2151..2237, 2154..2231, 2322..2417, 2337..2423, 2338..2421, 2650..2775, 2652..2777, 2653..2769, 2965..3036, 2965..3036, 2966..3043, 3113..3160, 3133..3162		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o3.ts	Method	TBLASTX:Soybean
Start	2189	End	2777
GI	none	Score	70
Exons	2189..2227, 2337..2423, 2338..2421, 2629..2769, 2652..2774, 2652..2777		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	20450	End	21560
GI	none	Score	131
Exons	20450..20563, 20451..20564, 21114..21344, 21116..21349, 21116..21181, 21129..21344, 21130..21345, 21395..21559, 21447..21560		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	21154	End	21358
GI	none	Score	230
Exons	21154..21342, 21155..21358		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	21155	End	21529
GI	none	Score	205
Exons	21155..21370, 21160..21327, 21447..21500, 21476..21529		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-

Start	28272	End	35449
Name	OJ000309_09.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	21565	End	23741
GI	none	Score	133
Exons	21565..21648, 21566..21649, 21581..21652, 21721..21813, 21723..21812, 22081..22194, 22104..22196, 22104..22193, 22115..22198, 22115..22195, 23513..23740, 23515..23736, 23571..23741		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o2.tc	Method	TBLASTX:Cress
Start	22155	End	23734
GI	none	Score	73
Exons	22155..22256, 22156..22200, 23486..23734, 23566..23724		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	24842	End	25959
GI	none	Score	134
Exons	24842..24964, 24842..24958, 24846..24962, 24847..24966, 25059..25124, 25060..25125, 25060..25122, 25062..25124, 25183..25386, 25205..25387, 25213..25401, 25877..25945, 25878..25949, 25879..25959		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	24869	End	26026
GI	none	Score	81
Exons	24869..24958, 24882..24959, 25060..25125, 25063..25125, 25183..25386, 25205..25387, 25877..26026, 25878..26024		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o4.tm	Method	TBLASTX:Maize
Start	28259	End	30226
GI	none	Score	141
Exons	28259..28318, 28296..28430, 28371..28505, 28383..28520, 28628..28708, 28630..28710, 28884..28943, 29033..29236, 29034..29243, 29691..29861, 29733..29861, 29923..30060, 29926..30072, 29934..30074, 29937..30083, 30125..30202, 30143..30226		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o8.gs	Method	GENSCAN
Start	28272	End	30199
GI	none	Score	.97
Exons	28272..28504, 28633..28708, 28883..28928, 29046..29244, 29937..30063, 30068..30112, 30143..30199		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o4.np	Method	AAT/NAP
Start	28275	End	30199
GI	6630747	Score	340
Exons	28275..28502, 28631..28708, 28883..28928, 29046..29244, 29884..30063, 30143..30199		
GI Descrip.	(AL132958) putative protein [Arabidopsis thaliana]		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o6.gp	Method	AAT/GAP
Start	29929	End	30967
GI	none	Score	852
Exons	29929..30063, 30143..30220, 30693..30967		

Seq. No.	51107	Seq. ID	OJ000309_09.0419.C6
Gene No.	108323	Strand	-
Start	28272	End	35449
Name	OJ000309_09.0419.C6.o9.gs	Method	GENSCAN
Start	30731	End	35449
GI	none	Score	.55
Exons	30731..30996, 31094..31187, 32244..32760, 34793..34954, 35230..35320, 35362..35449		

Seq. No.	51108	Seq. ID	OJ000309_09.0419.C7
Gene No.	108324	Strand	-
Start	2882	End	10486
Name	OJ000309_09.0419.C7.o1.gp	Method	AAT/GAP
Start	2882	End	6041
GI	3472_1.R1084	Score	2486
Exons	2882..3254, 3343..3483, 3593..3642, 3727..3817, 3909..3991, 4082..4146, 4228..4311, 4401..4466, 4546..4604, 4704..4779, 4929..5032, 5370..5404, 5566..5622, 5911..6041		
GI Descrip.	'927575_1.0e-129 (U12926) alpha galactosidase [Glycine max]'		

Seq. No.	51108	Seq. ID	OJ000309_09.0419.C7
Gene No.	108324	Strand	-
Start	2882	End	10486
Name	OJ000309_09.0419.C7.o1.np	Method	AAT/NAP
Start	3171	End	10465
GI	6164944	Score	1012
Exons	3171..3254, 3343..3483, 3593..3642, 3727..3817, 3909..3991, 4082..4146, 4228..4311, 4401..4466, 4546..4604, 4704..4779, 4929..5032, 5370..5404, 5566..5622, 8203..8261, 10287..10465		
GI Descrip.	(AF191823) alpha-galactosidase [Lycopersicon esculentum]		

Seq. No.	51108	Seq. ID	OJ000309_09.0419.C7
Gene No.	108324	Strand	-
Start	2882	End	10486
Name	OJ000309_09.0419.C7.o2.gs	Method	GENSCAN
Start	3277	End	10486
GI	none	Score	.62
Exons	3277..3483, 3593..3642, 3746..3836, 3909..3991, 4082..4146,		

4228..4311, 4401..4466, 4546..4604, 4874..5032, 5370..5404,
5566..5622, 8203..8261, 8281..8375, 9519..9633, 10353..10486

Seq. No.	51108	Seq. ID	OJ000309_09.0419.C7
Gene No.	108325	Strand	-
Start	13582	End	13752
Name	OJ000309_09.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	2942	End	10321
GI	none	Score	38
Exons	2942..2971, 3044..3085, 3044..3106, 3045..3086, 3155..3253, 3171..3254, 3171..3254, 3172..3255, 3328..3486, 3343..3483, 3344..3496, 3551..3688, 3591..3644, 3723..3818, 3726..3818, 3728..3820, 3728..3826, 3888..3995, 3904..3993, 4071..4148, 4074..4145, 4084..4149, 4229..4312, 4230..4340, 4230..4310, 4400..4468, 4401..4469, 4428..4469, 4542..4604, 4543..4605, 4544..4597, 4545..4604, 4702..4776, 4704..4778, 4705..4773, 4928..5035, 4929..5033, 5567..5626, 8184..8261, 8195..8266, 8204..8260, 10283..10321		

Seq. No.	51108	Seq. ID	OJ000309_09.0419.C7
Gene No.	108325	Strand	-
Start	13582	End	13752
Name	OJ000309_09.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	3177	End	8284
GI	none	Score	53
Exons	3177..3242, 3178..3234, 3310..3492, 3346..3483, 3588..3644, 3590..3643, 3722..3826, 3888..3995, 3904..3993, 4071..4148, 4083..4148, 4233..4310, 4234..4311, 4397..4423, 4400..4468, 4531..4620, 4545..4604, 4704..4778, 4705..4773, 4926..5060, 4928..5035, 5567..5626, 8204..8284		

Seq. No.	51108	Seq. ID	OJ000309_09.0419.C7
Gene No.	108325	Strand	-
Start	13582	End	13752
Name	OJ000309_09.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	3454	End	4773
GI	none	Score	37
Exons	3454..3483, 3461..3490, 3588..3644, 3590..3643, 3722..3826, 3732..3818, 3888..3995, 3904..3993, 4071..4148, 4233..4337, 4233..4310, 4234..4338, 4400..4468, 4543..4620, 4545..4604, 4704..4772, 4708..4773		

Seq. No.	51108	Seq. ID	OJ000309_09.0419.C7
Gene No.	108325	Strand	-
Start	13582	End	13752
Name	OJ000309_09.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	4545	End	5035
GI	none	Score	92
Exons	4545..4604, 4546..4620, 4546..4620, 4702..4776, 4704..4778, 4705..4776, 4927..5004, 4928..5035, 4929..5033		

Seq. No.	51108	Seq. ID	OJ000309_09.0419.C7
Gene No.	108325	Strand	-
Start	13582	End	13752
Name	OJ000309_09.0419.C7.o3.gs	Method	GENSCAN
Start	13582	End	13752
GI	none	Score	.95

Exons 13582..13752

Seq. No.	51109	Seq. ID	OJ000309_09.0419.C9
Gene No.	108326	Strand	+
Start	1	End	4085
Name	OJ000309_09.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	1750
GI	6630464	Score	892
Exons	1..1750		
GI.Descrip.	(AC007190) F23N19.4 [Arabidopsis thaliana]		

Seq. No.	51109	Seq. ID	OJ000309_09.0419.C9
Gene No.	108326	Strand	+
Start	1	End	4085
Name	OJ000309_09.0419.C9.o1.gs	Method	GENSCAN
Start	77	End	4085
GI	none	Score	.91
Exons	77..1129, 1335..1744, 3144..3215, 3771..3821, 3962..4085		

Seq. No.	51109	Seq. ID	OJ000309_09.0419.C9
Gene No.	108327	Strand	+
Start	5023	End	5220
Name	OJ000309_09.0419.C9.o2.gs	Method	GENSCAN
Start	5023	End	5220
GI	none	Score	.92
Exons	5023..5220		

Seq. No.	51109	Seq. ID	OJ000309_09.0419.C9
Gene No.	108328	Strand	+
Start	8971	End	9230
Name	OJ000309_09.0419.C9.o3.np	Method	AAT/NAP
Start	8971	End	9230
GI	7340909	Score	145
Exons	8971..9230		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51109	Seq. ID	OJ000309_09.0419.C9
Gene No.	108329	Strand	-
Start	4032	End	5417
Name	OJ000309_09.0419.C9.o2.np	Method	AAT/NAP
Start	4032	End	5417
GI	7340860	Score	102
Exons	4032..4132, 5353..5417		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51109	Seq. ID	OJ000309_09.0419.C9
Gene No.	108330	Strand	-
Start	7370	End	9046
Name	OJ000309_09.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	62	End	1619
GI	none	Score	98
Exons	62..205, 62..205, 74..520, 122..625, 219..374, 219..632, 220..678, 221..730, 221..718, 347..829, 437..940, 536..1045, 662..1150, 752..1213, 850..1149, 851..1297, 880..1152, 955..1161, 956..1300, 1103..1204, 1358..1483, 1362..1586, 1377..1619		

Seq. No.	51109	Seq. ID	OJ000309_09.0419.C9
Gene No.	108330	Strand	-
Start	7370	End	9046
Name	OJ000309_09.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	68	End	1601
GI	none	Score	165
Exons	68..340, 68..250, 77..250, 80..451, 140..352, 262..447, 266..448, 281..448, 302..652, 307..510, 371..577, 398..763, 500..889, 539..802, 617..973, 710..1081, 785..1012, 815..1201, 835..1161, 896..1117, 904..1113, 910..1077, 932..1288, 937..1245, 983..1222, 1037..1297, 1100..1297, 1117..1317, 1142..1303, 1169..1300, 1183..1299, 1284..1526, 1290..1562, 1296..1433, 1308..1490, 1371..1601		

Seq. No.	51109	Seq. ID	OJ000309_09.0419.C9
Gene No.	108330	Strand	-
Start	7370	End	9046
Name	OJ000309_09.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	68	End	1661
GI	none	Score	147
Exons	68..337, 71..337, 73..450, 77..523, 83..952, 88..309, 116..298, 197..1057, 290..652, 326..499, 407..1279, 512..1288, 605..814, 659..829, 713..1288, 785..1156, 844..1023, 851..1024, 857..1294, 892..1149, 898..1173, 898..1161, 931..1056, 956..1129, 1037..1297, 1141..1278, 1142..1309, 1350..1490, 1368..1661, 1371..1634, 1374..1562, 1464..1634		

Seq. No.	51109	Seq. ID	OJ000309_09.0419.C9
Gene No.	108330	Strand	-
Start	7370	End	9046
Name	OJ000309_09.0419.C9.o3.gs	Method	GENSCAN
Start	7370	End	9046
GI	none	Score	.81
Exons	7370..7430, 8138..8264, 8926..9046		

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108331	Strand	+
Start	525	End	4100
Name	OJ000309_09.0419.C10.o1.gs	Method	GENSCAN
Start	525	End	4100
GI	none	Score	.4
Exons	525..1897, 1955..2251, 3350..3477, 3598..3743, 3951..4100		

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108332	Strand	-
Start	5174	End	10412
Name	OJ000309_09.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	762	End	3932
GI	none	Score	79
Exons	762..947, 768..947, 768..908, 885..1067, 960..1067, 1092..1337, 1098..1436, 1098..1349, 1098..1271, 1119..1337, 1128..1364, 1182..1550, 1239..1460, 1253..1438, 1380..1547, 1401..1751, 1401..1547, 1506..1865, 1596..1784, 1638..1901, 1658..1867, 1707..2075, 1773..2084, 1911..2084, 1995..2087, 3597..3836, 3600..3863, 3603..3818, 3608..3784, 3635..3796, 3651..3929, 3714..3929, 3744..3932		

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108332	Strand	-
Start	5174	End	10412
Name	OJ000309_09.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	762	End	4096
GI	none	Score	74
Exons	762..917, 957..1067, 960..1076, 981..1067, 1098..1835, 1098..1526, 1106..1420, 1107..1436, 1107..1433, 1137..1298, 1172..1426, 1175..1435, 1182..2051, 1229..1339, 1296..2075, 1400..1723, 1425..1598, 1506..2141, 1544..1897, 1635..1808, 1700..1939, 1704..2075, 1812..2087, 1917..2105, 1956..2087, 1970..2116, 1991..2104, 2188..2238, 3590..3775, 3593..3889, 3594..3881, 3597..3731, 3597..3893, 3600..3893, 3650..4096, 3651..3932, 3753..3902		

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108332	Strand	-
Start	5174	End	10412
Name	OJ000309_09.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	768	End	4108
GI	none	Score	70
Exons	768..950, 1098..1514, 1109..1573, 1110..1619, 1110..1304, 1221..1730, 1272..1493, 1319..1828, 1320..1829, 1425..1934, 1536..2039, 1635..2087, 3594..3863, 3600..4079, 3681..3902, 3992..4108		

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108332	Strand	-
Start	5174	End	10412
Name	OJ000309_09.0419.C10.o2.gs	Method	GENSCAN
Start	5174	End	10412
GI	none	Score	.87
Exons	5174..5299, 6150..6276, 6278..6456, 6555..6648, 6732..6787, 7226..7891, 8001..8246, 8339..8761, 9178..9814, 10327..10412		

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108332	Strand	-
Start	5174	End	10412
Name	OJ000309_09.0419.C10.o1.gp	Method	AAT/GAP
Start	5987	End	7393
GI	none	Score	1475
Exons	5987..6456, 6555..6648, 6732..6787, 7226..7393		

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108332	Strand	-
Start	5174	End	10412
Name	OJ000309_09.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	6283	End	9702
GI	none	Score	170
Exons	6283..6459, 6293..6454, 6516..6635, 6553..6630, 6731..6790, 7224..7274, 7282..7368, 7283..7375, 7290..7370, 7382..7465, 7394..7465, 7404..7478, 7442..7663, 7479..7730, 7482..7664, 7483..7716, 7537..7728, 7537..7767, 7537..7728, 7541..7648, 7541..7663, 7541..7663, 7542..7739, 7546..7731, 7546..7599, 7546..7728, 7548..7751, 7548..7736, 7561..7728, 7600..7731, 7607..7663, 7609..7722, 7611..7733, 7627..7665, 7754..7894,		

7755..7787, 7755..7895, 7756..7845, 7756..7815, 7814..7894,
7859..7921, 7963..8247, 7998..8255, 7999..8247, 8055..8180,
8099..8263, 8330..8533, 8336..8530, 8346..8534, 8534..8668,
8535..8591, 8542..8625, 8617..8763, 8627..8764, 8651..8764,
8733..8765, 9175..9330, 9232..9330, 9517..9681, 9559..9702

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108332	Strand	-
Start	5174	End	10412
Name	OJ000309_09.0419.C10.o2.np	Method	AAT/NAP
Start	7257	End	9801
GI	5080792	Score	518
Exons	7257..7413, 7820..7891, 8001..8256, 8339..8562, 8608..8761, 9178..9456, 9486..9801		
GI Descrip.	(AC007576) Unknown protein [Arabidopsis thaliana]		

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108332	Strand	-
Start	5174	End	10412
Name	OJ000309_09.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	7998	End	9669
GI	none	Score	112
Exons	7998..8159, 7998..8174, 8002..8163, 8005..8160, 8043..8177, 8055..8153, 8172..8240, 8342..8536, 8396..8515, 8687..8770, 9166..9363, 9172..9363, 9232..9345, 9232..9330, 9388..9435, 9496..9669, 9506..9646, 9517..9657, 9559..9657		

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108332	Strand	-
Start	5174	End	10412
Name	OJ000309_09.0419.C10.o2.tc	Method	TBLASTX:Cress
Start	8055	End	9736
GI	none	Score	144
Exons	8055..8153, 9232..9345, 9496..9735, 9518..9736		

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108332	Strand	-
Start	5174	End	10412
Name	OJ000309_09.0419.C10.o2.gp	Method	AAT/GAP
Start	8066	End	8419
GI	uC-osflcyp081e03b1	Score	449
Exons	8066..8246, 8339..8419		
GI Descrip.	'4249402 2.0e-84 (AC006072) unknown protein [Arabidopsis thaliana]'		

Seq. No.	51110	Seq. ID	OJ000309_09.0419.C10
Gene No.	108332	Strand	-
Start	5174	End	10412
Name	OJ000309_09.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	9235	End	9806
GI	none	Score	246
Exons	9235..9342, 9561..9803, 9562..9804, 9562..9804, 9594..9806		

Seq. No.	51111	Seq. ID	OJ000309_09.0419.C12
Gene No.	108333	Strand	+
Start	8165	End	12938
Name	OJ000309_09.0419.C12.o1.np	Method	AAT/NAP

Start	8165	End	12938
GI	2443881	Score	941
Exons	8165..8320, 8444..8591, 8720..8946, 9094..9196, 9407..9477, 10276..10350, 10441..10584, 12918..12938		
GI Descrip.	(AC002294) contains beta-transducin motif [Arabidopsis thaliana]		

Seq. No.	51111	Seq. ID	OJ000309_09.0419.C12
Gene No.	108333	Strand	+
Start	8165	End	12938
Name	OJ000309_09.0419.C12.o2.gs	Method	GENSCAN
Start	8531	End	12733
GI	none	Score	.83
Exons	8531..8591, 8720..8946, 9094..9196, 9407..9477, 10119..10142, 10276..10350, 10441..10584, 10655..10778, 10895..11689, 11729..11833, 11910..12028, 12070..12252, 12277..12351, 12432..12547, 12617..12733		

Seq. No.	51111	Seq. ID	OJ000309_09.0419.C12
Gene No.	108334	Strand	-
Start	614	End	7469
Name	OJ000309_09.0419.C12.o1.gs	Method	GENSCAN
Start	614	End	7469
GI	none	Score	.63
Exons	614..814, 2091..2117, 2186..2330, 3139..3630, 3793..3854, 4254..4408, 5830..5953, 6836..6988, 7089..7469		

Seq. No.	51111	Seq. ID	OJ000309_09.0419.C12
Gene No.	108335	Strand	
Start	8719	End	12914
Name	OJ000309_09.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	8719	End	12531
GI	none	Score	70
Exons	8719..8832, 8722..8946, 8740..8949, 8745..8960, 9094..9207, 9096..9197, 9405..9473, 9405..9476, 9406..9477, 10275..10349, 10276..10350, 10434..10583, 10438..10584, 10440..10583, 10444..10584, 10633..10776, 10653..10781, 10656..10778, 10660..10782, 10661..10789, 10887..10967, 10894..10977, 10963..11400, 10968..11399, 10996..11400, 11384..11476, 11390..11827, 11391..11828, 11392..11853, 12052..12201, 12065..12196, 12070..12198, 12274..12348, 12276..12353, 12277..12354, 12432..12530, 12448..12531, 12459..12530		

Seq. No.	51111	Seq. ID	OJ000309_09.0419.C12
Gene No.	108335	Strand	
Start	8719	End	12914
Name	OJ000309_09.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	10294	End	10581
GI	none	Score	73
Exons	10294..10353, 10296..10346, 10434..10580, 10441..10581, 10513..10581		

Seq. No.	51111	Seq. ID	OJ000309_09.0419.C12
Gene No.	108335	Strand	
Start	8719	End	12914
Name	OJ000309_09.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	12100	End	12914
GI	none	Score	88

Exons 12100..12201, 12277..12345, 12431..12508, 12432..12530,
12614..12772, 12615..12734, 12656..12760, 12840..12914

Seq. No.	51112	Seq. ID	OJ000309_09.0419.C13
Gene No.	108336	Strand	+
Start	587	End	935
Name	OJ000309_09.0419.C13.o1.gp	Method	AAT/GAP
Start	587	End	935
GI	none	Score	694
Exons	587..935		

Seq. No.	51112	Seq. ID	OJ000309_09.0419.C13
Gene No.	108337	Strand	-
Start	348	End	1103
Name	OJ000309_09.0419.C13.o1.gs	Method	GENSCAN
Start	348	End	936
GI	none	Score	.57
Exons	348..388, 873..936		

Seq. No.	51112	Seq. ID	OJ000309_09.0419.C13
Gene No.	108337	Strand	-
Start	348	End	1103
Name	OJ000309_09.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	734	End	1103
GI	none	Score	131
Exons	734..844, 735..851, 869..1036, 870..1040, 877..1044, 985..1053, 998..1057, 1018..1065, 1039..1065, 1074..1103		

Seq. No.	51113	Seq. ID	OJ000309_09.0419.C14
Gene No.	108338	Strand	-
Start	1	End	371
Name	OJ000309_09.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	371
GI	6759439	Score	42
Exons	1..44, 313..371		
GI Descrip.	(AL137189) putative protein [Arabidopsis thaliana]		

Seq. No.	51114	Seq. ID	OJ000119_03.0419.C1
Gene No.	108339	Strand	+
Start	6196	End	7081
Name	OJ000119_03.0419.C1.o2.np	Method	AAT/NAP
Start	6196	End	7081
GI	5042463	Score	108
Exons	6196..6371, 6905..7081		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	51114	Seq. ID	OJ000119_03.0419.C1
Gene No.	108340	Strand	-
Start	1	End	2777
Name	OJ000119_03.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	2777
GI	6539588	Score	158
Exons	1..18, 2403..2777		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	51114	Seq. ID	OJ000119_03.0419.C1
Gene No.	108341	Strand	-

Start	5855	End	6369
Name	OJ000119_03.0419.C1.o2.gs	Method	GENSCAN
Start	5855	End	6369
GI	none	Score	.7
Exons	5855..6077, 6236..6369		

Seq. No.	51115	Seq. ID	OJ000119_03.0419.C2
Gene No.	108342	Strand	+
Start	1743	End	2342
Name	OJ000119_03.0419.C2.o1.np	Method	AAT/NAP
Start	1743	End	2342
GI	7228463	Score	370
Exons	1743..1789, 1900..2089, 2222..2342		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa] gi 7242900 dbj BAA92498.1 (AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	51116	Seq. ID	OJ000119_03.0419.C3
Gene No.	108343	Strand	+
Start	287	End	385
Name	OJ000119_03.0419.C3.o1.gs	Method	GENSCAN
Start	287	End	385
GI	none	Score	.76
Exons	287..385		

Seq. No.	51117	Seq. ID	OJ000119_03.0419.C4
Gene No.	108344	Strand	-
Start	1	End	4089
Name	OJ000119_03.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	3042
GI	7444442	Score	429
Exons	1..36, 2172..3042		
GI Descrip.	gag/pol polyprotein - maize retrotransposon Hopscotch gi 531389 gb AAA57005.1 (U12626) copia-like retrotransposon Hopscotch polyprotein [Zea mays]		

Seq. No.	51117	Seq. ID	OJ000119_03.0419.C4
Gene No.	108344	Strand	-
Start	1	End	4089
Name	OJ000119_03.0419.C4.o2.np	Method	AAT/NAP
Start	1867	End	4089
GI	7340868	Score	145
Exons	1867..1902, 3105..3270, 4070..4089		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51117	Seq. ID	OJ000119_03.0419.C4
Gene No.	108344	Strand	-
Start	1	End	4089
Name	OJ000119_03.0419.C4.o1.gs	Method	GENSCAN
Start	2408	End	3335
GI	none	Score	.73
Exons	2408..2740, 2757..2992, 3193..3335		

Seq. No.	51117	Seq. ID	OJ000119_03.0419.C4
Gene No.	108344	Strand	-
Start	1	End	4089
Name	OJ000119_03.0419.C4.o1.tw	Method	TBLASTX:Wheat

Start 2411
GI none
Exons 2411..2716

End 2716
Score 191

Seq. No. 51117
Gene No. 108344
Start 1
Name OJ000119_03.0419.C4.o1.tm
Start 2531
GI none
Exons 2531..2821, 2550..2813, 2566..2835, 2687..2821

Seq. ID OJ000119_03.0419.C4
Strand -
End 4089
Method TBLASTX:Maize
End 2835
Score 143

Seq. No. 51118
Gene No. 108345
Start 643
Name OJ000119_03.0419.C5.o1.gp
Start 643
GI LIB3434-035-P1-K1-A7
Exons 643..929
GI Descrip. '5441876/dbj|AP000367.1|AP000367 1.0e-114 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'

Seq. ID OJ000119_03.0419.C5
Strand -
End 929
Method AAT/GAP
End 929
Score 433

Seq. No. 51118
Gene No. 108346
Start 1254
Name OJ000119_03.0419.C5.o1.np
Start 1254
GI 2160144
Exons 1254..1297, 2963..3456, 3517..3733, 4528..4555
GI Descrip. (AC000375) Strong similarity to Arabidopsis oligopeptide transporter (gb|X77503). [Arabidopsis thaliana]

Seq. ID OJ000119_03.0419.C5
Strand -
End 4555
Method AAT/NAP
End 4555
Score 128

Seq. No. 51119
Gene No. 108347
Start 2617
Name OJ000119_03.0419.C6.o1.gs
Start 2617
GI none
Exons 2617..2665, 3477..3590, 3738..3852, 4129..4211, 4292..4416, 4483..4680, 4751..4809, 4892..5201, 5220..5656, 5799..5944, 6004..6539

Seq. ID OJ000119_03.0419.C6
Strand +
End 6539
Method GENSCAN
End 6539
Score .66

Seq. No. 51119
Gene No. 108347
Start 2617
Name OJ000119_03.0419.C6.o1.np
Start 4413
GI 6721561
Exons 4413..4680, 4751..4809, 4892..5657
GI Descrip. (AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]
gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. ID OJ000119_03.0419.C6
Strand +
End 6539
Method AAT/NAP
End 5657
Score 1138

Seq. No. 51119
Gene No. 108348

Seq. ID OJ000119_03.0419.C6
Strand -

Start	7113	End	14137
Name	OJ000119_03.0419.C6.o2.np	Method	AAT/NAP
Start	7113	End	11957
GI	7228457	Score	2979
Exons	7113..8650, 8703..10362, 10417..11957		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o3.tw	Method	TBLASTX:Wheat
Start	7122	End	7730
GI	none	Score	63
Exons	7122..7253, 7123..7248, 7278..7730, 7474..7581		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o2.gs	Method	GENSCAN
Start	7275	End	14137
GI	none	Score	.55
Exons	7275..7676, 8053..8500, 8547..8703, 8818..9151, 9233..9346, 9426..9533, 9575..9930, 10196..10331, 10394..11030, 11151..11564, 11801..11988, 12038..12312, 12421..12946, 13049..13374, 14047..14137		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o5.tw	Method	TBLASTX:Wheat
Start	7855	End	8238
GI	none	Score	51
Exons	7855..8238, 7856..7900, 7934..8230		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	7933	End	8238
GI	none	Score	186
Exons	7933..8238, 7934..8221		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o7.tw	Method	TBLASTX:Wheat
Start	8724	End	9131
GI	none	Score	38
Exons	8724..8795, 8724..8822, 8792..8896, 8904..9131, 8906..9130		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	9221	End	9622

GI	none	Score	42
Exons	9221..9622, 9230..9400, 9462..9587		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	9278	End	9697
GI	none	Score	251
Exons	9278..9697, 9282..9653		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	9374	End	9757
GI	none	Score	124
Exons	9374..9757, 9375..9653		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	9785	End	10135
GI	none	Score	240
Exons	9785..10135, 9786..10106		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	9815	End	10271
GI	none	Score	393
Exons	9815..10270, 9816..10271		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o4.tw	Method	TBLASTX:Wheat
Start	10463	End	10918
GI	none	Score	136
Exons	10463..10699, 10473..10697, 10736..10918, 10737..10910		

Seq. No.	51119	Seq. ID	OJ000119_03.0419.C6
Gene No.	108348	Strand	-
Start	7113	End	14137
Name	OJ000119_03.0419.C6.o6.tw	Method	TBLASTX:Wheat
Start	11549	End	11946
GI	none	Score	111
Exons	11549..11824, 11598..11819, 11831..11884, 11839..11895, 11896..11946		

Seq. No.	51120	Seq. ID	OJ000119_03.0419.C7
Gene No.	108349	Strand	-
Start	1	End	2073
Name	OJ000119_03.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	2037

GI	2160144	Score	166
Exons	1..636, 688..793, 1994..2037		
GI Descrip.	(AC000375) Strong similarity to Arabidopsis oligopeptide transporter (gb X77503). [Arabidopsis thaliana]		
Seq. No.	51120	Seq. ID	OJ000119_03.0419.C7
Gene No.	108349	Strand	-
Start	1	End	2073
Name	OJ000119_03.0419.C7.o2.np	Method	AAT/NAP
Start	1	End	2073
GI	6721547	Score	86
Exons	1..20, 1989..2073		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	51120	Seq. ID	OJ000119_03.0419.C7
Gene No.	108350	Strand	-
Start	2791	End	6391
Name	OJ000119_03.0419.C7.o3.np	Method	AAT/NAP
Start	2791	End	6391
GI	5042454	Score	2488
Exons	2791..2844, 3109..3284, 3510..3537, 4121..4667, 5299..6391		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	51120	Seq. ID	OJ000119_03.0419.C7
Gene No.	108350	Strand	-
Start	2791	End	6391
Name	OJ000119_03.0419.C7.o1.gp	Method	AAT/GAP
Start	2878	End	3250
GI	uC-osflcyp172a09a1	Score	522
Exons	2878..3250		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 1.0e-35 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	51120	Seq. ID	OJ000119_03.0419.C7
Gene No.	108350	Strand	-
Start	2791	End	6391
Name	OJ000119_03.0419.C7.o2.tw	Method	TBLASTX:Wheat
Start	4016	End	4283
GI	none	Score	161
Exons	4016..4282, 4020..4283		

Seq. No.	51120	Seq. ID	OJ000119_03.0419.C7
Gene No.	108350	Strand	-
Start	2791	End	6391
Name	OJ000119_03.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	5298	End	5441
GI	none	Score	126
Exons	5298..5441, 5302..5436		

Seq. No.	51120	Seq. ID	OJ000119_03.0419.C7
Gene No.	108350	Strand	-
Start	2791	End	6391
Name	OJ000119_03.0419.C7.o3.gs	Method	GENSCAN
Start	5298	End	6325
GI	none	Score	.45
Exons	5298..5534, 5629..6325		

Seq. No.	51120	Seq. ID	OJ000119_03.0419.C7
Gene No.	108350	Strand	-
Start	2791	End	6391
Name	OJ000119_03.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	5944	End	6336
GI	none	Score	92
Exons	5944..6201, 5978..6217, 6184..6282, 6185..6277, 6289..6336		

Seq. No.	51120	Seq. ID	OJ000119_03.0419.C7
Gene No.	108350	Strand	-
Start	2791	End	6391
Name	OJ000119_03.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	6046	End	6331
GI	none	Score	93
Exons	6046..6294, 6047..6331		

Seq. No.	51121	Seq. ID	OJ000119_03.0419.C8
Gene No.	108351	Strand	+
Start	1	End	839
Name	OJ000119_03.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	722
GI	5042454	Score	255
Exons	1..52, 239..411, 669..722		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	51121	Seq. ID	OJ000119_03.0419.C8
Gene No.	108351	Strand	+
Start	1	End	839
Name	OJ000119_03.0419.C8.o1.gs	Method	GENSCAN
Start	349	End	839
GI	none	Score	.9
Exons	349..411, 669..839		

Seq. No.	51122	Seq. ID	OJ000119_03.0419.C9
Gene No.	108352	Strand	-
Start	1715	End	1799
Name	OJ000119_03.0419.C9.o1.np	Method	AAT/NAP
Start	1715	End	1799
GI	6721547	Score	82
Exons	1715..1799		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	51122	Seq. ID	OJ000119_03.0419.C9
Gene No.	108353	Strand	-
Start	1731	End	1820
Name	OJ000119_03.0419.C9.o1.gs	Method	GENSCAN
Start	1731	End	1820
GI	none	Score	.53
Exons	1731..1820		

Seq. No.	51123	Seq. ID	OJ000119_03.0419.C10
Gene No.	108354	Strand	-
Start	985	End	1064
Name	OJ000119_03.0419.C10.o1.gs	Method	GENSCAN
Start	985	End	1064
GI	none	Score	.84
Exons	985..1064		

Seq. No.	51124	Seq. ID	OJ000119_03.0419.C11
Gene No.	108355	Strand	-
Start	1	End	1606
Name	OJ000119_03.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	1606
GI	4102839	Score	335
Exons	1..363, 1431..1606		
GI Descrip.	(AF016713) LeOPT1 [Lycopersicon esculentum]		

Seq. No.	51124	Seq. ID	OJ000119_03.0419.C11
Gene No.	108355	Strand	-
Start	1	End	1606
Name	OJ000119_03.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	3	End	368
GI	none	Score	184
Exons	3..368, 4..363		

Seq. No.	51124	Seq. ID	OJ000119_03.0419.C11
Gene No.	108355	Strand	-
Start	1	End	1606
Name	OJ000119_03.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	3	End	369
GI	none	Score	182
Exons	3..368, 4..369		

Seq. No.	51124	Seq. ID	OJ000119_03.0419.C11
Gene No.	108355	Strand	-
Start	1	End	1606
Name	OJ000119_03.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	36	End	333
GI	none	Score	207
Exons	36..305, 37..306, 199..333		

Seq. No.	51124	Seq. ID	OJ000119_03.0419.C11
Gene No.	108355	Strand	-
Start	1	End	1606
Name	OJ000119_03.0419.C11.o1.gs	Method	GENSCAN
Start	66	End	366
GI	none	Score	.48
Exons	66..366		

Seq. No.	51125	Seq. ID	OJ000119_03.0419.C12
Gene No.	108356	Strand	+
Start	80	End	366
Name	OJ000119_03.0419.C12.o1.gs	Method	GENSCAN
Start	80	End	366
GI	none	Score	.96
Exons	80..148, 361..366		

Seq. No.	51126	Seq. ID	OJ000119_03.0419.C14
Gene No.	108357	Strand	+
Start	916	End	1020
Name	OJ000119_03.0419.C14.o1.np	Method	AAT/NAP
Start	916	End	1020
GI	7523502	Score	101
Exons	916..1020		

GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No.	51126	Seq. ID	OJ000119_03.0419.C14
Gene No.	108358	Strand	-
Start	511	End	663
Name	OJ000119_03.0419.C14.o1.gs	Method	GENSCAN
Start	511	End	663
GI	none	Score	.52
Exons	511..663		

Seq. No.	51127	Seq. ID	OJ000119_03.0419.C15
Gene No.	108359	Strand	+
Start	1016	End	1651
Name	OJ000119_03.0419.C15.o1.gs	Method	GENSCAN
Start	1016	End	1651
GI	none	Score	.58
Exons	1016..1018, 1544..1651		

Seq. No.	51127	Seq. ID	OJ000119_03.0419.C15
Gene No.	108360	Strand	-
Start	1861	End	2043
Name	OJ000119_03.0419.C15.o2.gs	Method	GENSCAN
Start	1861	End	2043
GI	none	Score	.82
Exons	1861..2043		

Seq. No.	51127	Seq. ID	OJ000119_03.0419.C15
Gene No.	108361	Strand	-
Start	1947	End	2085
Name	OJ000119_03.0419.C15.o1.np	Method	AAT/NAP
Start	1947	End	2085
GI	1480863	Score	102
Exons	1947..2085		

GI Descrip. (U63332) super cysteine rich protein; SCRP [Homo sapiens]

Seq. No.	51128	Seq. ID	OJ000119_03.0419.C16
Gene No.	108362	Strand	+
Start	1162	End	1211
Name	OJ000119_03.0419.C16.o1.gs	Method	GENSCAN
Start	1162	End	1211
GI	none	Score	.83
Exons	1162..1211		

Seq. No.	51128	Seq. ID	OJ000119_03.0419.C16
Gene No.	108363	Strand	-
Start	1319	End	1512
Name	OJ000119_03.0419.C16.o1.gp	Method	AAT/GAP
Start	1319	End	1512
GI	LIB3431-027-P1-K1-D5	Score	205
Exons	1319..1396, 1467..1512		

GI Descrip. '2190552 1.0e-21 (AC001229) Similar to Holcus major pollen allergen (gb_Z27084). [Arabidopsis thaliana]'

Seq. No.	51129	Seq. ID	OJ000119_03.0419.C17
Gene No.	108364	Strand	-
Start	62	End	191
Name	OJ000119_03.0419.C17.o1.gs	Method	GENSCAN

Start 62
GI none
Exons 62..191

End 191
Score .98

Seq. No. 51130
Gene No. 108365
Start 120
Name OJ000119_03.0419.C18.o1.gs
Start 120
GI none
Exons 120..367

Seq. ID OJ000119_03.0419.C18
Strand +
End 367
Method GENSCAN
End 367
Score .82

Seq. No. 51131
Gene No. 108366
Start 1
Name OJ000119_03.0419.C20.o1.gp
Start 1
GI 576 1.R1084
Exons 1..486, 781..946
GI Descrip. '1097875/prf||2114377A 0.0e+00 peroxidase:ISOTYPE=RPA [Oryza sativa]'

Seq. ID OJ000119_03.0419.C20
Strand -
End 1008
Method AAT/GAP
End 946
Score 1247

Seq. No. 51131
Gene No. 108366
Start 1
Name OJ000119_03.0419.C20.o1.tc
Start 59
GI none
Exons 59..109, 80..121, 119..277, 131..364, 237..368, 410..487, 824..874, 871..900, 872..979, 888..995

Seq. ID OJ000119_03.0419.C20
Strand -
End 1008
Method TBLASTX:Cress
End 995
Score 47

Seq. No. 51131
Gene No. 108366
Start 1
Name OJ000119_03.0419.C20.o1.ts
Start 62
GI none
Exons 62..196, 84..185, 239..355, 240..290, 368..487, 854..952

Seq. ID OJ000119_03.0419.C20
Strand -
End 1008
Method TBLASTX:Soybean
End 952
Score 67

Seq. No. 51131
Gene No. 108366
Start 1
Name OJ000119_03.0419.C20.o1.gs
Start 77
GI none
Exons 77..486, 781..911

Seq. ID OJ000119_03.0419.C20
Strand -
End 1008
Method GENSCAN
End 911
Score .96

Seq. No. 51131
Gene No. 108366
Start 1
Name OJ000119_03.0419.C20.o1.np
Start 80
GI 1097875
Exons 80..486, 781..1008
GI Descrip. peroxidase:ISOTYPE=RPA [Oryza sativa]

Seq. ID OJ000119_03.0419.C20
Strand -
End 1008
Method AAT/NAP
End 1008
Score 949

Seq. No. 51131

Seq. ID OJ000119_03.0419.C20

Gene No.	108366	Strand	-
Start	1	End	1008
Name	OJ000119_03.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	87	End	410
GI	none	Score	79
Exons	87..179, 89..226, 92..226, 224..274, 224..361, 231..362, 335..376, 350..409, 354..410		

Seq. No.	51131	Seq. ID	OJ000119_03.0419.C20
Gene No.	108366	Strand	-
Start	1	End	1008
Name	OJ000119_03.0419.C20.o2.tm	Method	TBLASTX:Maize
Start	805	End	947
GI	none	Score	71
Exons	805..945, 822..944, 824..946, 825..947		

Seq. No.	51132	Seq. ID	OJ000119_03.0419.C21
Gene No.	108367	Strand	-
Start	1	End	395
Name	OJ000119_03.0419.C21.o1.gp	Method	AAT/GAP
Start	1	End	395
GI	576_1.R1084	Score	521
Exons	1..29, 142..395		
GI Descrip.	'1097875/prf 2114377A 0.0e+00 peroxidase:ISOTYPE=RPA [Oryza sativa]'		

Seq. No.	51132	Seq. ID	OJ000119_03.0419.C21
Gene No.	108367	Strand	-
Start	1	End	395
Name	OJ000119_03.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	363
GI	7433034	Score	405
Exons	1..29, 142..363		
GI Descrip.	peroxidase (EC 1.11.1.7) (clone prxRPA) - rice gi 1853974 dbj BAA03372.1 (D14481) putative peroxidase [Oryza sativa]		

Seq. No.	51132	Seq. ID	OJ000119_03.0419.C21
Gene No.	108368	Strand	-
Start	1627	End	5077
Name	OJ000119_03.0419.C21.o2.tc	Method	TBLASTX:Cress
Start	3	End	333
GI	none	Score	74
Exons	3..41, 137..295, 142..333		

Seq. No.	51132	Seq. ID	OJ000119_03.0419.C21
Gene No.	108368	Strand	-
Start	1627	End	5077
Name	OJ000119_03.0419.C21.o2.tw	Method	TBLASTX:Wheat
Start	3	End	367
GI	none	Score	171
Exons	3..41, 141..269, 142..282, 143..268, 283..366, 284..367		

Seq. No.	51132	Seq. ID	OJ000119_03.0419.C21
Gene No.	108368	Strand	-
Start	1627	End	5077
Name	OJ000119_03.0419.C21.o2.tm	Method	TBLASTX:Maize

Start	137	End	369
GI	none	Score	194
Exons	137..328, 137..364, 141..362, 142..369, 142..366		

Seq. No.	51132	Seq. ID	OJ000119_03.0419.C21
Gene No.	108368	Strand	-
Start	1627	End	5077
Name	OJ000119_03.0419.C21.o1.tw	Method	TBLASTX:Wheat
Start	1621	End	1959
GI	none	Score	261
Exons	1621..1959, 1697..1957, 1861..1959		

Seq. No.	51132	Seq. ID	OJ000119_03.0419.C21
Gene No.	108368	Strand	-
Start	1627	End	5077
Name	OJ000119_03.0419.C21.o2.np	Method	AAT/NAP
Start	1627	End	5077
GI	4102839	Score	1263
Exons	1627..2953, 4163..4380, 4685..4771, 5020..5077		
GI Descrip.	(AF016713) LeOPT1 [Lycopersicon esculentum]		

Seq. No.	51132	Seq. ID	OJ000119_03.0419.C21
Gene No.	108368	Strand	-
Start	1627	End	5077
Name	OJ000119_03.0419.C21.o1.tc	Method	TBLASTX:Cress
Start	1636	End	4796
GI	none	Score	202
Exons	1636..1971, 1643..1960, 1864..1971, 1963..2196, 2176..2241, 2177..2230, 2227..2349, 2258..2350, 2395..2436, 2455..2859, 2543..2854, 4158..4382, 4190..4381, 4681..4764, 4683..4796		

Seq. No.	51132	Seq. ID	OJ000119_03.0419.C21
Gene No.	108368	Strand	-
Start	1627	End	5077
Name	OJ000119_03.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	1636	End	2851
GI	none	Score	231
Exons	1636..1971, 1637..1972, 1954..2196, 2059..2100, 2248..2352, 2258..2353, 2395..2445, 2396..2437, 2542..2670, 2543..2668, 2674..2751, 2681..2740, 2707..2847, 2747..2851		

Seq. No.	51132	Seq. ID	OJ000119_03.0419.C21
Gene No.	108368	Strand	-
Start	1627	End	5077
Name	OJ000119_03.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	1636	End	4375
GI	none	Score	119
Exons	1636..1740, 1843..1971, 1972..2229, 2269..2349, 2395..2433, 2458..2865, 2543..2830, 4190..4375		

Seq. No.	51132	Seq. ID	OJ000119_03.0419.C21
Gene No.	108368	Strand	-
Start	1627	End	5077
Name	OJ000119_03.0419.C21.o3.tm	Method	TBLASTX:Maize
Start	4158	End	4781
GI	none	Score	142
Exons	4158..4382, 4190..4381, 4681..4770, 4683..4781		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108369	Strand	+
Start	21	End	906
Name	OJ000119_03.0419.C22.o1.gs	Method	GENSCAN
Start	21	End	906
GI	none	Score	.71
Exons	21..144, 155..315, 416..538, 589..906		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108370	Strand	+
Start	1783	End	1962
Name	OJ000119_03.0419.C22.o2.gs	Method	GENSCAN
Start	1783	End	1962
GI	none	Score	.61
Exons	1783..1962		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108371	Strand	-
Start	1	End	6623
Name	OJ000119_03.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	5442
GI	6069646	Score	722
Exons	1..339, 622..950, 4018..4081, 4692..4750, 5334..5442		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108371	Strand	-
Start	1	End	6623
Name	OJ000119_03.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	322	End	762
GI	none	Score	159
Exons	322..456, 460..762		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108371	Strand	-
Start	1	End	6623
Name	OJ000119_03.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	401	End	889
GI	none	Score	208
Exons	401..889, 403..885		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108371	Strand	-
Start	1	End	6623
Name	OJ000119_03.0419.C22.o3.tw	Method	TBLASTX:Wheat
Start	3370	End	3735
GI	none	Score	58
Exons	3370..3519, 3437..3520, 3544..3735, 3545..3727, 3622..3732		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108371	Strand	-
Start	1	End	6623

Name	OJ000119_03.0419.C22.o3.gs	Method	GENSCAN
Start	3388	End	6623
GI	none	Score	.69
Exons	3388..4189, 4502..5037, 5141..5390, 6571..6623		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108371	Strand	-
Start	1	End	6623
Name	OJ000119_03.0419.C22.o2.np	Method	AAT/NAP
Start	3394	End	6611
GI	4102839	Score	1298
Exons	3394..4189, 4502..5061, 5165..5358, 5460..5563, 6571..6611		
GI Descrip.	(AF016713) LeOPT1 [Lycopersicon esculentum]		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108371	Strand	-
Start	1	End	6623
Name	OJ000119_03.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	3403	End	5548
GI	none	Score	59
Exons	3403..3522, 3403..3579, 3544..3741, 3622..3741, 3769..4158, 3827..3967, 4049..4132, 4499..4981, 4510..4980, 5151..5360, 5168..5362, 5458..5547, 5459..5548		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108371	Strand	-
Start	1	End	6623
Name	OJ000119_03.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	3403	End	4957
GI	none	Score	70
Exons	3403..3606, 3404..3520, 3544..3741, 3589..3738, 3769..4149, 3827..4006, 4061..4141, 4499..4777, 4501..4779, 4741..4854, 4834..4950, 4835..4954, 4901..4957		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108371	Strand	-
Start	1	End	6623
Name	OJ000119_03.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	3403	End	4698
GI	none	Score	59
Exons	3403..3519, 3544..3741, 3587..3739, 3769..4020, 3827..4012, 3998..4141, 4000..4134, 4597..4698, 4607..4687		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108371	Strand	-
Start	1	End	6623
Name	OJ000119_03.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	4723	End	5547
GI	none	Score	159
Exons	4723..4980, 4724..4963, 5002..5061, 5151..5360, 5162..5362, 5458..5547, 5459..5536		

Seq. No.	51133	Seq. ID	OJ000119_03.0419.C22
Gene No.	108371	Strand	-
Start	1	End	6623
Name	OJ000119_03.0419.C22.o3.tm	Method	TBLASTX:Maize
Start	5120	End	5548

GI none Score 114
Exons 5120..5371, 5136..5360, 5458..5547, 5459..5548

Seq. No. 51133 Seq. ID OJ000119_03.0419.C22
Gene No. 108371 Strand -
Start 1 End 6623
Name OJ000119_03.0419.C22.o2.tw Method TBLASTX:Wheat
Start 5223 End 5547
GI none Score 78
Exons 5223..5360, 5225..5362, 5458..5547

Seq. No. 51134 Seq. ID OJ000119_03.0419.C23
Gene No. 108372 Strand -
Start 1 End 1466
Name OJ000119_03.0419.C23.o1.np Method AAT/NAP
Start 1 End 1466
GI 6539588 Score 235
Exons 1..43, 1130..1466
GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. No. 51134 Seq. ID OJ000119_03.0419.C23
Gene No. 108372 Strand -
Start 1 End 1466
Name OJ000119_03.0419.C23.o1.gs Method GENSCAN
Start 1215 End 1441
GI none Score .84
Exons 1215..1441

Seq. No. 51135 Seq. ID OJ000119_03.0419.C24
Gene No. 108373 Strand -
Start 878 End 1599
Name OJ000119_03.0419.C24.o1.ts Method TBLASTX:Soybean
Start 869 End 1537
GI none Score 47
Exons 869..1129, 945..1115, 1151..1537, 1191..1433

Seq. No. 51135 Seq. ID OJ000119_03.0419.C24
Gene No. 108373 Strand -
Start 878 End 1599
Name OJ000119_03.0419.C24.o1.gs Method GENSCAN
Start 878 End 1502
GI none Score .43
Exons 878..1502

Seq. No. 51135 Seq. ID OJ000119_03.0419.C24
Gene No. 108373 Strand -
Start 878 End 1599
Name OJ000119_03.0419.C24.o1.np Method AAT/NAP
Start 878 End 1599
GI 4416302 Score 735
Exons 878..1599
GI Descrip. (AF105716) copia-type pol polyprotein [Zea mays]

Seq. No. 51135 Seq. ID OJ000119_03.0419.C24
Gene No. 108373 Strand -
Start 878 End 1599
Name OJ000119_03.0419.C24.o1.tc Method TBLASTX:Cress

Start	899	End	1264
GI	none	Score	70
Exons	899..1144, 996..1112, 1133..1264		

Seq. No.	51135	Seq. ID	OJ000119_03.0419.C24
Gene No.	108373	Strand	-
Start	878	End	1599
Name	OJ000119_03.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	899	End	1555
GI	none	Score	377
Exons	899..1555, 909..1547		

Seq. No.	51135	Seq. ID	OJ000119_03.0419.C24
Gene No.	108373	Strand	-
Start	878	End	1599
Name	OJ000119_03.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	944	End	1399
GI	none	Score	76
Exons	944..1135, 944..1120, 1139..1399		

Seq. No.	51136	Seq. ID	OJ000119_03.0419.C25
Gene No.	108374	Strand	-
Start	1	End	823
Name	OJ000119_03.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	823
GI	4416302	Score	644
Exons	1..823		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	51136	Seq. ID	OJ000119_03.0419.C25
Gene No.	108374	Strand	-
Start	1	End	823
Name	OJ000119_03.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	6	End	581
GI	none	Score	278
Exons	6..98, 93..437, 94..453, 198..476, 507..581, 508..576		

Seq. No.	51136	Seq. ID	OJ000119_03.0419.C25
Gene No.	108374	Strand	-
Start	1	End	823
Name	OJ000119_03.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	6	End	407
GI	none	Score	146
Exons	6..74, 96..407, 103..387		

Seq. No.	51136	Seq. ID	OJ000119_03.0419.C25
Gene No.	108374	Strand	-
Start	1	End	823
Name	OJ000119_03.0419.C25.o1.gs	Method	GENSCAN
Start	237	End	762
GI	none	Score	.66
Exons	237..762		

Seq. No.	51136	Seq. ID	OJ000119_03.0419.C25
Gene No.	108374	Strand	-
Start	1	End	823
Name	OJ000119_03.0419.C25.o1.tw	Method	TBLASTX:Wheat

Start	249	End	806
GI	none	Score	144
Exons	249..437, 250..423, 258..539, 495..536, 576..806		

Seq. No.	51137	Seq. ID	OJ000119_03.0419.C26
Gene No.	108375	Strand	-
Start	1	End	485
Name	OJ000119_03.0419.C26.o1.gp	Method	AAT/GAP
Start	1	End	485
GI	65408_1.R1084	Score	749
Exons	1..205, 296..485		
GI Descrip.	'217995/dbj BAA02840 1.0e-35 (D13683) peroxidase [Populus kitakamiensis]'		

Seq. No.	51137	Seq. ID	OJ000119_03.0419.C26
Gene No.	108375	Strand	-
Start	1	End	485
Name	OJ000119_03.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	464
GI	217995	Score	294
Exons	1..205, 296..464		
GI Descrip.	(D13683) peroxidase [Populus kitakamiensis]		

Seq. No.	51137	Seq. ID	OJ000119_03.0419.C26
Gene No.	108375	Strand	-
Start	1	End	485
Name	OJ000119_03.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	2	End	459
GI	none	Score	53
Exons	2..28, 3..236, 82..207, 294..458, 295..459		

Seq. No.	51137	Seq. ID	OJ000119_03.0419.C26
Gene No.	108375	Strand	-
Start	1	End	485
Name	OJ000119_03.0419.C26.o1.tc	Method	TBLASTX:Cress
Start	3	End	458
GI	none	Score	102
Exons	3..230, 82..207, 321..383, 399..458		

Seq. No.	51137	Seq. ID	OJ000119_03.0419.C26
Gene No.	108375	Strand	-
Start	1	End	485
Name	OJ000119_03.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	3	End	458
GI	5677403	Score	83
Exons	3..236, 121..207, 283..330, 294..386, 402..458		
GI Descrip.	2117620/pir_JC4779 6.0e-63 peroxidase (EC 1.11.1.7) 1A - alfalfa >gi_971558_emb_CAA62225_ (X90692) peroxidase1A [Medicago sativa]		

Seq. No.	51137	Seq. ID	OJ000119_03.0419.C26
Gene No.	108375	Strand	-
Start	1	End	485
Name	OJ000119_03.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	3	End	183
GI	none	Score	108
Exons	3..182, 82..180, 97..183		

Seq. No.	51137	Seq. ID	OJ000119_03.0419.C26
Gene No.	108375	Strand	-
Start	1	End	485
Name	OJ000119_03.0419.C26.o1.gs	Method	GENSCAN
Start	206	End	458
GI	none	Score	.5
Exons	206..458		

Seq. No.	51138	Seq. ID	OJ000119_03.0419.C27
Gene No.	108376	Strand	-
Start	1677	End	2990
Name	OJ000119_03.0419.C27.o1.gs	Method	GENSCAN
Start	1677	End	2990
GI	none	Score	.52
Exons	1677..1873, 2558..2695, 2942..2990		

Seq. No.	51138	Seq. ID	OJ000119_03.0419.C27
Gene No.	108376	Strand	-
Start	1677	End	2990
Name	OJ000119_03.0419.C27.o1.gp	Method	AAT/GAP
Start	2319	End	2836
GI	LIB3434-038-P1-K1-F1	Score	742
Exons	2319..2836		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	51139	Seq. ID	OJ000119_03.0419.C28
Gene No.	108377	Strand	+
Start	76	End	830
Name	OJ000119_03.0419.C28.o1.gs	Method	GENSCAN
Start	76	End	830
GI	none	Score	.41
Exons	76..140, 692..830		

Seq. No.	51140	Seq. ID	OJ000329_05.0424.C1
Gene No.	108378	Strand	+
Start	823	End	915
Name	OJ000329_05.0424.C1.o1.gp	Method	AAT/GAP
Start	823	End	915
GI	LIB3432-059-P1-K1-D8	Score	156
Exons	823..915		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	51141	Seq. ID	OJ000329_05.0424.C2
Gene No.	108379	Strand	+
Start	4606	End	4893
Name	OJ000329_05.0424.C2.o2.gs	Method	GENSCAN
Start	4606	End	4893
GI	none	Score	.54
Exons	4606..4718, 4776..4893		

Seq. No.	51141	Seq. ID	OJ000329_05.0424.C2
Gene No.	108380	Strand	-
Start	941	End	13035
Name	OJ000329_05.0424.C2.o1.gs	Method	GENSCAN

Start	941	End	4422
GI	none	Score	.44
Exons	941..1095, 2068..2137, 2902..2952, 4291..4422		

Seq. No.	51141	Seq. ID	OJ000329_05.0424.C2
Gene No.	108380	Strand	-
Start	941	End	13035
Name	OJ000329_05.0424.C2.o1.np	Method	AAT/NAP
Start	4166	End	13035
GI	7490967	Score	193
Exons	4166..4895, 10027..10312, 10888..11149, 12995..13035		
GI Descrip.	hypothetical protein SPAC23A1.17 - fission yeast (Schizosaccharomyces pombe) gi 2879805 emb CAA16991.1 (AL021813) hypothetical protein; extensin-like; with SH3 Src homology domain [Schizosaccharomyces pombe]		

Seq. No.	51141	Seq. ID	OJ000329_05.0424.C2
Gene No.	108380	Strand	-
Start	941	End	13035
Name	OJ000329_05.0424.C2.o3.gs	Method	GENSCAN
Start	7260	End	12981
GI	none	Score	.42
Exons	7260..7446, 7702..7822, 7911..8116, 9755..9848, 10014..10211, 12587..12723, 12911..12981		

Seq. No.	51142	Seq. ID	OJ000329_05.0424.C3
Gene No.	108381	Strand	-
Start	1	End	2263
Name	OJ000329_05.0424.C3.o1.np	Method	AAT/NAP
Start	1	End	2263
GI	4455151	Score	329
Exons	1..184, 531..741, 1668..1746, 2199..2263		
GI Descrip.	(AL022603) putative serine/threonine kinase (fragment) [Arabidopsis thaliana]		

Seq. No.	51142	Seq. ID	OJ000329_05.0424.C3
Gene No.	108381	Strand	-
Start	1	End	2263
Name	OJ000329_05.0424.C3.o1.tm	Method	TBLASTX:Maize
Start	1	End	741
GI	none	Score	89
Exons	1..75, 97..123, 541..687, 593..688, 688..741		

Seq. No.	51142	Seq. ID	OJ000329_05.0424.C3
Gene No.	108381	Strand	-
Start	1	End	2263
Name	OJ000329_05.0424.C3.o1.ts	Method	TBLASTX:Soybean
Start	25	End	729
GI	none	Score	86
Exons	25..75, 114..173, 541..729, 599..688		

Seq. No.	51142	Seq. ID	OJ000329_05.0424.C3
Gene No.	108381	Strand	-
Start	1	End	2263
Name	OJ000329_05.0424.C3.o1.tc	Method	TBLASTX:Cress
Start	526	End	754
GI	none	Score	102

Exons 526..681, 541..687, 599..688, 697..741, 701..754

Seq. No.	51142	Seq. ID	OJ000329_05.0424.C3
Gene No.	108381	Strand	-
Start	1	End	2263
Name	OJ000329_05.0424.C3.o1.gs	Method	GENSCAN
Start	528	End	2053
GI	none	Score	.98
Exons	528..741, 1668..1831, 1946..2053		

Seq. No.	51143	Seq. ID	OJ000329_05.0424.C5
Gene No.	108382	Strand	+
Start	299	End	1392
Name	OJ000329_05.0424.C5.o1.gs	Method	GENSCAN
Start	299	End	1392
GI	none	Score	.89
Exons	299..403, 590..676, 748..912, 991..1392		

Seq. No.	51143	Seq. ID	OJ000329_05.0424.C5
Gene No.	108383	Strand	-
Start	1578	End	2168
Name	OJ000329_05.0424.C5.o2.gs	Method	GENSCAN
Start	1578	End	2168
GI	none	Score	1
Exons	1578..2168		

Seq. No.	51143	Seq. ID	OJ000329_05.0424.C5
Gene No.	108384	Strand	-
Start	3823	End	6546
Name	OJ000329_05.0424.C5.o2.np	Method	AAT/NAP
Start	3235	End	6546
GI	7488317	Score	434
Exons	3235..3258, 4978..5759, 5792..6389, 6526..6546		
GI Descrip.	RNA-directed DNA polymerase homolog F19F24.2 - Arabidopsis thaliana gi 4185148 gb AAD08951.1 (AC005724) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	51143	Seq. ID	OJ000329_05.0424.C5
Gene No.	108384	Strand	-
Start	3823	End	6546
Name	OJ000329_05.0424.C5.o3.gs	Method	GENSCAN
Start	3823	End	6426
GI	none	Score	.58
Exons	3823..4298, 5139..5208, 5518..5711, 6390..6426		

Seq. No.	51143	Seq. ID	OJ000329_05.0424.C5
Gene No.	108384	Strand	-
Start	3823	End	6546
Name	OJ000329_05.0424.C5.o1.tw	Method	TBLASTX:Wheat
Start	4939	End	5182
GI	none	Score	88
Exons	4939..5076, 4940..5071, 5076..5159, 5078..5182		

Seq. No.	51143	Seq. ID	OJ000329_05.0424.C5
Gene No.	108384	Strand	-
Start	3823	End	6546
Name	OJ000329_05.0424.C5.o2.tm	Method	TBLASTX:Maize

Start	5014	End	5326
GI	none	Score	38
Exons	5014..5076, 5039..5074, 5078..5224, 5103..5228, 5231..5326, 5247..5312		

Seq. No.	51143	Seq. ID	OJ000329_05.0424.C5
Gene No.	108384	Strand	-
Start	3823	End	6546
Name	OJ000329_05.0424.C5.o1.tm	Method	TBLASTX:Maize
Start	5332	End	6118
GI	none	Score	70
Exons	5332..5625, 5399..5617, 5725..5763, 5729..6118, 5838..5936		

Seq. No.	51144	Seq. ID	OJ000329_05.0424.C8
Gene No.	108385	Strand	-
Start	1	End	1939
Name	OJ000329_05.0424.C8.o1.np	Method	AAT/NAP
Start	1	End	1939
GI	4680204	Score	945
Exons	1..428, 503..1939		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	51144	Seq. ID	OJ000329_05.0424.C8
Gene No.	108385	Strand	-
Start	1	End	1939
Name	OJ000329_05.0424.C8.o1.gs	Method	GENSCAN
Start	16	End	1924
GI	none	Score	.42
Exons	16..161, 287..428, 503..622, 668..1924		

Seq. No.	51144	Seq. ID	OJ000329_05.0424.C8
Gene No.	108385	Strand	-
Start	1	End	1939
Name	OJ000329_05.0424.C8.o1.tw	Method	TBLASTX:Wheat
Start	893	End	1296
GI	none	Score	84
Exons	893..1063, 1026..1193, 1058..1294, 1145..1294, 1156..1296, 1186..1296		

Seq. No.	51145	Seq. ID	OJ000329_05.0424.C9
Gene No.	108386	Strand	+
Start	1	End	4010
Name	OJ000329_05.0424.C9.o2.np	Method	AAT/NAP
Start	1	End	4010
GI	4680186	Score	387
Exons	1..109, 2919..2972, 3810..4010		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51145	Seq. ID	OJ000329_05.0424.C9
Gene No.	108387	Strand	-
Start	49	End	4859
Name	OJ000329_05.0424.C9.o1.gs	Method	GENSCAN
Start	49	End	4859
GI	none	Score	.45
Exons	49..147, 1282..2836, 4778..4859		

Seq. No.	51145	Seq. ID	OJ000329_05.0424.C9
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Gene No.	108387	Strand	-
Start	49	End	4859
Name	OJ000329_05.0424.C9.o1.gp	Method	AAT/GAP
Start	375	End	2857
GI	342_1.R1084	Score	3915
Exons	375..852, 962..1059, 1142..1161, 1197..2857		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	51145	Seq. ID	OJ000329_05.0424.C9
Gene No.	108387	Strand	-
Start	49	End	4859
Name	OJ000329_05.0424.C9.o1.tw	Method	TBLASTX:Wheat
Start	1317	End	2634
GI	none	Score	126
Exons	1317..1409, 1398..1478, 1491..1631, 1492..1632, 1611..1670, 1612..1674, 1677..1721, 1682..1717, 1716..2633, 1731..2048, 1732..2634		

Seq. No.	51145	Seq. ID	OJ000329_05.0424.C9
Gene No.	108387	Strand	-
Start	49	End	4859
Name	OJ000329_05.0424.C9.o1.np	Method	AAT/NAP
Start	1801	End	2928
GI	6742729	Score	1632
Exons	1801..2928		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	51145	Seq. ID	OJ000329_05.0424.C9
Gene No.	108387	Strand	-
Start	49	End	4859
Name	OJ000329_05.0424.C9.o1.tc	Method	TBLASTX:Cress
Start	1899	End	2350
GI	none	Score	92
Exons	1899..2048, 1899..2342, 1903..2346, 1909..2346, 2168..2350		

Seq. No.	51145	Seq. ID	OJ000329_05.0424.C9
Gene No.	108387	Strand	-
Start	49	End	4859
Name	OJ000329_05.0424.C9.o1.tm	Method	TBLASTX:Maize
Start	2277	End	2591
GI	none	Score	71
Exons	2277..2507, 2277..2591, 2305..2580		

Seq. No.	51145	Seq. ID	OJ000329_05.0424.C9
Gene No.	108387	Strand	-
Start	49	End	4859
Name	OJ000329_05.0424.C9.o2.gp	Method	AAT/GAP
Start	3562	End	3943
GI	uC-osflcyp033a04b1	Score	691
Exons	3562..3943		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51146	Seq. ID	OJ000329_05.0424.C10
Gene No.	108388	Strand	-
Start	1	End	2624

Name	OJ000329_05.0424.C10.o1.np	Method	AAT/NAP
Start	1	End	2175
GI	4680203	Score	2061
Exons	1..65, 505..2175		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51146	Seq. ID	OJ000329_05.0424.C10
Gene No.	108388	Strand	-
Start	1	End	2624
Name	OJ000329_05.0424.C10.o1.gs	Method	GENSCAN
Start	406	End	2175
GI	none	Score	.95
Exons	406..2175		

Seq. No.	51146	Seq. ID	OJ000329_05.0424.C10
Gene No.	108388	Strand	-
Start	1	End	2624
Name	OJ000329_05.0424.C10.o3.tw	Method	TBLASTX:Wheat
Start	451	End	690
GI	none	Score	99
Exons	451..570, 454..558, 455..571, 545..688, 568..690		

Seq. No.	51146	Seq. ID	OJ000329_05.0424.C10
Gene No.	108388	Strand	-
Start	1	End	2624
Name	OJ000329_05.0424.C10.o1.gp	Method	AAT/GAP
Start	455	End	2171
GI	342_1.R1084	Score	2823
Exons	455..2171		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	51146	Seq. ID	OJ000329_05.0424.C10
Gene No.	108388	Strand	-
Start	1	End	2624
Name	OJ000329_05.0424.C10.o2.ts	Method	TBLASTX:Soybean
Start	679	End	921
GI	none	Score	211
Exons	679..921		

Seq. No.	51146	Seq. ID	OJ000329_05.0424.C10
Gene No.	108388	Strand	-
Start	1	End	2624
Name	OJ000329_05.0424.C10.o1.tm	Method	TBLASTX:Maize
Start	751	End	1209
GI	none	Score	108
Exons	751..945, 955..1209, 955..1197		

Seq. No.	51146	Seq. ID	OJ000329_05.0424.C10
Gene No.	108388	Strand	-
Start	1	End	2624
Name	OJ000329_05.0424.C10.o1.tw	Method	TBLASTX:Wheat
Start	785	End	1254
GI	none	Score	173
Exons	785..991, 785..994, 790..993, 790..1014, 994..1092, 995..1087, 1096..1200, 1100..1189, 1201..1254, 1202..1246		

Seq. No.	51146	Seq. ID	OJ000329_05.0424.C10
Gene No.	108388	Strand	-
Start	1	End	2624
Name	OJ000329_05.0424.C10.o1.tc	Method	TBLASTX:Cress
Start	1042	End	1390
GI	none	Score	88
Exons	1042..1383, 1061..1198, 1238..1390		

Seq. No.	51146	Seq. ID	OJ000329_05.0424.C10
Gene No.	108388	Strand	-
Start	1	End	2624
Name	OJ000329_05.0424.C10.o1.ts	Method	TBLASTX:Soybean
Start	1123	End	1552
GI	none	Score	121
Exons	1123..1419, 1141..1365, 1414..1476, 1469..1552, 1477..1551		

Seq. No.	51146	Seq. ID	OJ000329_05.0424.C10
Gene No.	108388	Strand	-
Start	1	End	2624
Name	OJ000329_05.0424.C10.o2.tw	Method	TBLASTX:Wheat
Start	1473	End	1824
GI	none	Score	186
Exons	1473..1724, 1483..1734, 1484..1726, 1717..1824		

Seq. No.	51146	Seq. ID	OJ000329_05.0424.C10
Gene No.	108388	Strand	-
Start	1	End	2624
Name	OJ000329_05.0424.C10.o2.gp	Method	AAT/GAP
Start	2036	End	2624
GI	2310235	Score	305
Exons	2036..2175, 2587..2624		
GI Descrip.	5852182/emb CAB55420.1 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	51147	Seq. ID	OJ000329_05.0424.C11
Gene No.	108389	Strand	-
Start	1390	End	7676
Name	OJ000329_05.0424.C11.o1.gs	Method	GENSCAN
Start	1390	End	7673
GI	none	Score	.44
Exons	1390..1460, 2271..2326, 2377..2422, 2427..2740, 4745..4839, 5000..5200, 5513..5563, 5814..5937, 7118..7361, 7463..7673		

Seq. No.	51147	Seq. ID	OJ000329_05.0424.C11
Gene No.	108389	Strand	-
Start	1390	End	7676
Name	OJ000329_05.0424.C11.o1.np	Method	AAT/NAP
Start	4998	End	7673
GI	5734728	Score	442
Exons	4998..5087, 5748..5989, 6179..6277, 7118..7361, 7463..7673		
GI Descrip.	(AC007259) Very similar to receptor-like protein kinases [Arabidopsis thaliana]		

Seq. No.	51147	Seq. ID	OJ000329_05.0424.C11
Gene No.	108389	Strand	-
Start	1390	End	7676
Name	OJ000329_05.0424.C11.o1.ts	Method	TBLASTX:Soybean

Start	5757	End	7676
GI	none	Score	115
Exons	5757..5894, 5904..5960, 6179..6244, 6256..6276, 7120..7275, 7279..7362, 7467..7676, 7477..7674		

Seq. No.	51147	Seq. ID	OJ000329_05.0424.C11
Gene No.	108389	Strand	-
Start	1390	End	7676
Name	OJ000329_05.0424.C11.o1.tc	Method	TBLASTX:Cress
Start	7120	End	7625
GI	none	Score	48
Exons	7120..7284, 7279..7368, 7283..7366, 7458..7625, 7476..7571, 7477..7617		

Seq. No.	51147	Seq. ID	OJ000329_05.0424.C11
Gene No.	108389	Strand	-
Start	1390	End	7676
Name	OJ000329_05.0424.C11.o1.tm	Method	TBLASTX:Maize
Start	7120	End	7676
GI	none	Score	62
Exons	7120..7284, 7172..7222, 7270..7368, 7283..7351, 7475..7675, 7476..7661, 7476..7676, 7480..7674		

Seq. No.	51147	Seq. ID	OJ000329_05.0424.C11
Gene No.	108389	Strand	-
Start	1390	End	7676
Name	OJ000329_05.0424.C11.o1.tw	Method	TBLASTX:Wheat
Start	7126	End	7542
GI	none	Score	83
Exons	7126..7284, 7155..7232, 7270..7368, 7285..7362, 7467..7541, 7471..7542		

Seq. No.	51148	Seq. ID	OJ000329_05.0424.C12
Gene No.	108390	Strand	+
Start	712	End	1439
Name	OJ000329_05.0424.C12.o1.gs	Method	GENSCAN
Start	712	End	1439
GI	none	Score	.92
Exons	712..776, 1421..1439		

Seq. No.	51148	Seq. ID	OJ000329_05.0424.C12
Gene No.	108391	Strand	-
Start	2410	End	5299
Name	OJ000329_05.0424.C12.o2.gs	Method	GENSCAN
Start	2410	End	5299
GI	none	Score	.78
Exons	2410..2608, 2663..2808, 2817..3059, 3670..3833, 4105..4206, 4414..5299		

Seq. No.	51148	Seq. ID	OJ000329_05.0424.C12
Gene No.	108391	Strand	-
Start	2410	End	5299
Name	OJ000329_05.0424.C12.o1.np	Method	AAT/NAP
Start	2597	End	5209
GI	7485942	Score	156
Exons	2597..2620, 3666..3822, 4291..4636, 4694..5209		
GI Descrip.	hypothetical protein F21P8.120 - Arabidopsis thaliana		

gi|3021275|emb|CAA18470.1| (AL022347) putative protein
 [Arabidopsis thaliana] gi|7269171|emb|CAB79278.1| (AL161559)
 putative protein [Arabidopsis thaliana]

Seq. No.	51148	Seq. ID	OJ000329_05.0424.C12
Gene No.	108392	Strand	-
Start	8469	End	8541
Name	OJ000329_05.0424.C12.o3.gs	Method	GENSCAN
Start	8469	End	8541
GI	none	Score	.9
Exons	8469..8541		

Seq. No.	51149	Seq. ID	OJ000329_05.0424.C13
Gene No.	108393	Strand	+
Start	410	End	2150
Name	OJ000329_05.0424.C13.o1.gs	Method	GENSCAN
Start	410	End	2150
GI	none	Score	.82
Exons	410..473, 624..874, 999..1122, 1295..1561, 1918..2150		

Seq. No.	51149	Seq. ID	OJ000329_05.0424.C13
Gene No.	108393	Strand	+
Start	410	End	2150
Name	OJ000329_05.0424.C13.o1.np	Method	AAT/NAP
Start	410	End	2052
GI	6907086	Score	970
Exons	410..1153, 1211..1482, 1624..2052		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	51149	Seq. ID	OJ000329_05.0424.C13
Gene No.	108394	Strand	+
Start	12226	End	13429
Name	OJ000329_05.0424.C13.o4.gs	Method	GENSCAN
Start	12226	End	13429
GI	none	Score	.56
Exons	12226..12244, 12738..13102, 13276..13429		

Seq. No.	51149	Seq. ID	OJ000329_05.0424.C13
Gene No.	108395	Strand	-
Start	6641	End	10615
Name	OJ000329_05.0424.C13.o2.np	Method	AAT/NAP
Start	5957	End	7556
GI	6539588	Score	212
Exons	5957..6017, 7279..7556		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	51149	Seq. ID	OJ000329_05.0424.C13
Gene No.	108395	Strand	-
Start	6641	End	10615
Name	OJ000329_05.0424.C13.o3.gs	Method	GENSCAN
Start	6641	End	10615
GI	none	Score	.44
Exons	6641..6723, 7058..7204, 7352..7549, 8382..8647, 9657..9706, 10562..10615		

Seq. No.	51149	Seq. ID	OJ000329_05.0424.C13
Gene No.	108396	Strand	-

Start	11717	End	11946
Name	OJ000329_05.0424.C13.o3.np	Method	AAT/NAP
Start	11717	End	11946
GI	7510076	Score	58
Exons	11717..11946		
GI Descrip.	hypothetical protein Y50E8A.i - Caenorhabditis elegans		

Seq. No.	51150	Seq. ID	OJ000329_05.0424.C14
Gene No.	108397	Strand	+
Start	48	End	2825
Name	OJ000329_05.0424.C14.o1.gs	Method	GENSCAN
Start	48	End	2825
GI	none	Score	.52
Exons	48..646, 690..1287, 2051..2161, 2682..2825		

Seq. No.	51151	Seq. ID	OJ000329_05.0424.C19
Gene No.	108398	Strand	-
Start	1057	End	9707
Name	OJ000329_05.0424.C19.o1.gs	Method	GENSCAN
Start	1057	End	6262
GI	none	Score	.64
Exons	1057..1193, 1917..1990, 2065..2222, 2367..2532, 3252..3563, 3681..3794, 3879..4018, 4379..4514, 6033..6262		

Seq. No.	51151	Seq. ID	OJ000329_05.0424.C19
Gene No.	108398	Strand	-
Start	1057	End	9707
Name	OJ000329_05.0424.C19.o1.np	Method	AAT/NAP
Start	3323	End	7077
GI	6721516	Score	517
Exons	3323..3499, 4414..4730, 5145..5385, 6981..7077		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	51151	Seq. ID	OJ000329_05.0424.C19
Gene No.	108398	Strand	-
Start	1057	End	9707
Name	OJ000329_05.0424.C19.o2.np	Method	AAT/NAP
Start	3756	End	6282
GI	7523494	Score	291
Exons	3756..4004, 5734..5826, 5869..6282		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	51151	Seq. ID	OJ000329_05.0424.C19
Gene No.	108398	Strand	-
Start	1057	End	9707
Name	OJ000329_05.0424.C19.o3.np	Method	AAT/NAP
Start	6763	End	9707
GI	4680186	Score	175
Exons	6763..6806, 7466..7570, 8140..8339, 9652..9707		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51152	Seq. ID	OJ000329_05.0424.C20
Gene No.	108399	Strand	-
Start	170	End	1351
Name	OJ000329_05.0424.C20.o1.gs	Method	GENSCAN
Start	170	End	1351
GI	none	Score	.41

Exons 170..380, 1036..1224, 1283..1351

Seq. No.	51153	Seq. ID	OJ000329_03.0421.C6
Gene No.	108400	Strand	+
Start	1	End	1976
Name	OJ000329_03.0421.C6.o2.np	Method	AAT/NAP
Start	1	End	1976
GI	7106514	Score	49
Exons	1..73, 1841..1976		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	51153	Seq. ID	OJ000329_03.0421.C6
Gene No.	108401	Strand	+
Start	2710	End	3812
Name	OJ000329_03.0421.C6.o2.gs	Method	GENSCAN
Start	2710	End	3812
GI	none	Score	.79
Exons	2710..2943, 3666..3812		

Seq. No.	51153	Seq. ID	OJ000329_03.0421.C6
Gene No.	108402	Strand	-
Start	307	End	636
Name	OJ000329_03.0421.C6.o1.np	Method	AAT/NAP
Start	307	End	636
GI	7484936	Score	174
Exons	307..389, 525..636		
GI Descrip.	DNA-directed DNA polymerase homolog T1F15.3 - Arabidopsis thaliana gi 3176661 gb AAC18785.1 (AC004393) Similar to putative DNA polymerase gb M29683 from S. cerevisiae. [Arabidopsis thaliana]		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108403	Strand	+
Start	416	End	3653
Name	OJ000329_03.0421.C7.o1.gp	Method	AAT/GAP
Start	416	End	1827
GI	uC-osf1M202066h05b1	Score	959
Exons	416..690, 1450..1649, 1761..1827		
GI Descrip.	'3367520 7.0e-11 (AC004392) Similar to protein kinase APK1A, tyrosine-serine-threonine kinase gb_D12522 from A. thaliana. [Arabidopsis thaliana]'		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108403	Strand	+
Start	416	End	3653
Name	OJ000329_03.0421.C7.o1.gs	Method	GENSCAN
Start	585	End	3579
GI	none	Score	.57
Exons	585..690, 733..843, 1477..1649, 1761..1950, 2364..2755, 3010..3579		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108403	Strand	+
Start	416	End	3653
Name	OJ000329_03.0421.C7.o1.np	Method	AAT/NAP
Start	622	End	3653
GI	7413555	Score	1193

Exons 622..735, 1477..1649, 1758..1950, 2364..2755, 2890..3162, 3615..3653

GI Descrip. (AL162973) protein kinase-like [Arabidopsis thaliana]

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o4.tm	Method	TBLASTX:Maize
Start	1436	End	1849
GI	none	Score	103
Exons	1436..1519, 1525..1650, 1525..1653, 1532..1672, 1533..1652, 1539..1703, 1757..1849, 1758..1847, 1759..1848, 1760..1849		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o2.tw	Method	TBLASTX:Wheat
Start	1491	End	1877
GI	none	Score	110
Exons	1491..1646, 1553..1630, 1764..1877, 1790..1873		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o2.tc	Method	TBLASTX:Cress
Start	1532	End	1949
GI	none	Score	146
Exons	1532..1630, 1533..1637, 1560..1634, 1758..1949, 1766..1936, 1773..1949		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o1.ts	Method	TBLASTX:Soybean
Start	1533	End	3084
GI	none	Score	141
Exons	1533..1640, 1538..1639, 1758..1949, 1759..1953, 1766..1948, 2357..2770, 2362..2499, 2378..2761, 2888..3001, 2889..3065, 2889..3068, 2890..3084		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	1850	End	3499
GI	none	Score	166
Exons	1850..1951, 1851..1952, 1851..1952, 1852..1953, 2364..2633, 2369..2653, 2369..2632, 2370..2633, 2635..2769, 2636..2770, 2888..3187, 2889..3257, 2890..3387, 2890..3384, 3242..3409, 3386..3433, 3467..3499		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o1.tc	Method	TBLASTX:Cress
Start	2387	End	2757
GI	none	Score	89

Exons 2387..2470, 2401..2463, 2453..2755, 2464..2751, 2482..2757

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o1.tw	Method	TBLASTX:Wheat
Start	2387	End	2755
GI	none	Score	87
Exons	2387..2449, 2404..2445, 2456..2755, 2470..2754		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o3.tc	Method	TBLASTX:Cress
Start	2889	End	3114
GI	none	Score	256
Exons	2889..3095, 2890..3114		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o2.np	Method	AAT/NAP
Start	5230	End	6556
GI	5734630	Score	581
Exons	5230..6556		
GI Descrip.	(AP000391) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F25I24 (AL049525) [Oryza sativa]		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o3.tm	Method	TBLASTX:Maize
Start	5273	End	5785
GI	none	Score	74
Exons	5273..5341, 5301..5348, 5351..5461, 5364..5453, 5519..5785		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o2.ts	Method	TBLASTX:Soybean
Start	5390	End	5923
GI	none	Score	65
Exons	5390..5461, 5510..5632, 5510..5803, 5517..5774, 5834..5923		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o2.tm	Method	TBLASTX:Maize
Start	6239	End	6538
GI	none	Score	86
Exons	6239..6538, 6246..6317, 6366..6536		

Seq. No.	51154	Seq. ID	OJ000329_03.0421.C7
Gene No.	108404	Strand	-
Start	5230	End	6556
Name	OJ000329_03.0421.C7.o3.ts	Method	TBLASTX:Soybean
Start	6293	End	6518

GI none
Exons 6293..6517, 6366..6518

Score 141

Seq. No. 51155
Gene No. 108405
Start 336
Name OJ000329_03.0421.C8.o1.gs
Start 336
GI none
Exons 336..369, 1052..1293

Seq. ID OJ000329_03.0421.C8
Strand +
End 1305
Method GENSCAN
End 1293
Score .53

Seq. No. 51155
Gene No. 108405
Start 336
Name OJ000329_03.0421.C8.o1.np
Start 993
GI 6539588
Exons 993..1305
GI Descrip. (AP000837) hypothetical protein [Oryza sativa]

Seq. ID OJ000329_03.0421.C8
Strand +
End 1305
Method AAT/NAP
End 1305
Score 217

Seq. No. 51155
Gene No. 108406
Start 7927
Name OJ000329_03.0421.C8.o4.gp
Start 7927
GI 3762163
Exons 7927..8158
GI Descrip. 416321/gb|U03450|PRS416 3.0e-23 Yeast centromere vector pRS416 with URA3 marker, complete sequence

Seq. ID OJ000329_03.0421.C8
Strand +
End 8158
Method AAT/GAP
End 8158
Score 411

Seq. No. 51155
Gene No. 108407
Start 2095
Name OJ000329_03.0421.C8.o1.tm
Start 2046
GI none
Exons 2046..2294, 2050..2295, 2087..2296, 2178..2297, 2371..2463, 2383..2463, 2385..2474, 2385..2474, 2741..2953, 2749..2874, 2757..2969, 2759..2956, 2791..2979, 3126..3293, 3127..3294, 3131..3295, 3132..3299, 3388..3471, 3393..3470, 3541..3612, 3543..3611

Seq. ID OJ000329_03.0421.C8
Strand -
End 8071
Method TBLASTX:Maize
End 3612
Score 180

Seq. No. 51155
Gene No. 108407
Start 2095
Name OJ000329_03.0421.C8.o2.gs
Start 2095
GI none
Exons 2095..2296, 2386..2462, 2762..2956, 3130..3291, 4025..4090, 4282..4361, 5193..5209, 5660..5733, 6359..6583, 7165..7253, 7599..7707, 7868..8071

Seq. ID OJ000329_03.0421.C8
Strand -
End 8071
Method GENSCAN
End 8071
Score .65

Seq. No. 51155
Gene No. 108407
Start 2095
Name OJ000329_03.0421.C8.o1.tc
Start 2385

Seq. ID OJ000329_03.0421.C8
Strand -
End 8071
Method TBLASTX:Cress
End 4093

GI	none	Score	162
Exons	2385..2429, 2745..2948, 2759..2956, 3113..3199, 3115..3288, 3127..3201, 3188..3292, 3202..3291, 3393..3476, 3399..3467, 3537..3611, 3541..3612, 3718..3771, 3728..3796, 4025..4093		

Seq. No.	51155	Seq. ID	OJ000329_03.0421.C8
Gene No.	108407	Strand	-
Start	2095	End	8071
Name	OJ000329_03.0421.C8.o2.np	Method	AAT/NAP
Start	2757	End	5119
GI	7503599	Score	106
Exons	2757..2956, 3130..3200, 5097..5119		
GI Descrip.	hypothetical protein F46G10.4 - Caenorhabditis elegans gi 3877256 emb CAA90544.1 (Z50177) similar to lipase [Caenorhabditis elegans]		

Seq. No.	51155	Seq. ID	OJ000329_03.0421.C8
Gene No.	108407	Strand	-
Start	2095	End	8071
Name	OJ000329_03.0421.C8.o1.gp	Method	AAT/GAP
Start	2772	End	3213
GI	2443056	Score	518
Exons	2772..2956, 3130..3213		
GI Descrip.	3877256/emb CAA90544.1 8.0e-16 (Z50177) similar to lipase [Caenorhabditis elegans]		

Seq. No.	51155	Seq. ID	OJ000329_03.0421.C8
Gene No.	108407	Strand	-
Start	2095	End	8071
Name	OJ000329_03.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	3122	End	3464
GI	none	Score	91
Exons	3122..3205, 3122..3211, 3127..3222, 3127..3222, 3214..3291, 3393..3464		

Seq. No.	51155	Seq. ID	OJ000329_03.0421.C8
Gene No.	108407	Strand	-
Start	2095	End	8071
Name	OJ000329_03.0421.C8.o2.gp	Method	AAT/GAP
Start	3396	End	6019
GI	none	Score	816
Exons	3396..3468, 3541..3608, 3727..3774, 4025..4090, 4282..4361, 5660..5733, 5966..6019		

Seq. No.	51155	Seq. ID	OJ000329_03.0421.C8
Gene No.	108407	Strand	-
Start	2095	End	8071
Name	OJ000329_03.0421.C8.o3.gp	Method	AAT/GAP
Start	7621	End	7927
GI	52062_1.R1084	Score	590
Exons	7621..7927		
GI Descrip.	'416321/gb U03450 PRS416 3.0e-23 Yeast centromere vector pRS416 with URA3 marker, complete sequence'		

Seq. No.	51156	Seq. ID	OJ000329_03.0421.C9
Gene No.	108408	Strand	-
Start	363	End	1613

Name	OJ000329_03.0421.C9.o1.gs	Method	GENSCAN
Start	363	End	1613
GI	none	Score	.99
Exons	363..507, 1450..1613		

Seq. No.	51157	Seq. ID	OJ000329_03.0421.C10
Gene No.	108409	Strand	-
Start	2203	End	2656
Name	OJ000329_03.0421.C10.o1.np	Method	AAT/NAP
Start	2203	End	2656
GI	6942018	Score	78
Exons	2203..2656		
GI Descrip.	(AF216581) AP2/EREBP-like transcription factor LEAFY PETIOLE [Arabidopsis thaliana]		

Seq. No.	51158	Seq. ID	OJ000329_03.0421.C12
Gene No.	108410	Strand	+
Start	893	End	1919
Name	OJ000329_03.0421.C12.o1.gs	Method	GENSCAN
Start	893	End	1919
GI	none	Score	.67
Exons	893..1056, 1603..1711, 1827..1919		

Seq. No.	51158	Seq. ID	OJ000329_03.0421.C12
Gene No.	108411	Strand	-
Start	2203	End	5284
Name	OJ000329_03.0421.C12.o1.gp	Method	AAT/GAP
Start	2203	End	5087
GI	none	Score	1278
Exons	2203..2411, 2678..2749, 2868..2930, 3006..3067, 3626..3786, 4921..5087		

Seq. No.	51158	Seq. ID	OJ000329_03.0421.C12
Gene No.	108411	Strand	-
Start	2203	End	5284
Name	OJ000329_03.0421.C12.o2.gs	Method	GENSCAN
Start	2856	End	5284
GI	none	Score	.73
Exons	2856..2938, 3626..3786, 4757..4868, 4921..5284		

Seq. No.	51158	Seq. ID	OJ000329_03.0421.C12
Gene No.	108412	Strand	-
Start	5808	End	6119
Name	OJ000329_03.0421.C12.o2.gp	Method	AAT/GAP
Start	5808	End	6119
GI	16721_2.R1084	Score	620
Exons	5808..6119		
GI Descrip.	'4454033/emb CAA23030.1 1.0e-58 (AL035394) putative potassium transport protein [Arabidopsis thaliana]'		

Seq. No.	51158	Seq. ID	OJ000329_03.0421.C12
Gene No.	108413	Strand	-
Start	6045	End	6119
Name	OJ000329_03.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	3004	End	5142
GI	none	Score	82
Exons	3004..3075, 3006..3068, 3617..3787, 3624..3737, 3624..3797,		

3625..3789, 4920..5030, 4921..5031, 5092..5142

Seq. No.	51158	Seq. ID	OJ000329_03.0421.C12
Gene No.	108413	Strand	-
Start	6045	End	6119
Name	OJ000329_03.0421.C12.o1.ts	Method	TBLASTX:Soybean
Start	3630	End	5006
GI	none	Score	140
Exons	3630..3788, 3631..3789, 4944..5006		

Seq. No.	51158	Seq. ID	OJ000329_03.0421.C12
Gene No.	108413	Strand	-
Start	6045	End	6119
Name	OJ000329_03.0421.C12.o1.np	Method	AAT/NAP
Start	6045	End	6119
GI	7108599	Score	118
Exons	6045..6119		
GI Descrip.	(AF129479) HAK2 [Hordeum vulgare]		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108414	Strand	+
Start	1	End	515
Name	OJ000329_03.0421.C13.o1.gp	Method	AAT/GAP
Start	1	End	515
GI	16721_2.R1084	Score	995
Exons	1..515		
GI Descrip.	'4454033/emb CAA23030.1 1.0e-58 (AL035394) putative potassium transport protein [Arabidopsis thaliana]'		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-
Start	1	End	8055
Name	OJ000329_03.0421.C13.o1.np	Method	AAT/NAP
Start	1	End	3999
GI	7108599	Score	2866
Exons	1..892, 1426..1680, 1769..1883, 2005..2057, 2146..2406, 3030..3083, 3202..3444, 3738..3999		
GI Descrip.	(AF129479) HAK2 [Hordeum vulgare]		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-
Start	1	End	8055
Name	OJ000329_03.0421.C13.o1.tm	Method	TBLASTX:Maize
Start	3	End	1562
GI	none	Score	77
Exons	3..107, 24..149, 72..539, 181..540, 537..581, 540..569, 561..872, 564..893, 565..894, 1395..1562, 1424..1561		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-
Start	1	End	8055
Name	OJ000329_03.0421.C13.o1.gs	Method	GENSCAN
Start	27	End	8055
GI	none	Score	.77
Exons	27..892, 1426..1680, 2146..2406, 3030..3083, 3239..3410, 3893..4012, 4426..4549, 4915..4996, 8023..8055		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-
Start	1	End	8055
Name	OJ000329_03.0421.C13.o1.tc	Method	TBLASTX:Cress
Start	285	End	3963
GI	none	Score	167
Exons	285..872, 291..893, 298..894, 1395..1673, 1424..1675, 1770..1880, 1771..1887, 1991..2065, 2002..2076, 2139..2402, 2144..2404, 3203..3322, 3204..3314, 3350..3445, 3351..3446, 3736..3963, 3737..3934		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-
Start	1	End	8055
Name	OJ000329_03.0421.C13.o1.ts	Method	TBLASTX:Soybean
Start	297	End	896
GI	none	Score	245
Exons	297..872, 297..896, 298..894		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-
Start	1	End	8055
Name	OJ000329_03.0421.C13.o2.gp	Method	AAT/GAP
Start	744	End	862
GI	none	Score	202
Exons	744..862		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-
Start	1	End	8055
Name	OJ000329_03.0421.C13.o2.ts	Method	TBLASTX:Soybean
Start	1395	End	2341
GI	none	Score	188
Exons	1395..1667, 1424..1702, 1430..1669, 1809..1880, 2002..2076, 2144..2221, 2237..2341		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-
Start	1	End	8055
Name	OJ000329_03.0421.C13.o2.tm	Method	TBLASTX:Maize
Start	1562	End	2366
GI	none	Score	136
Exons	1562..1675, 1563..1673, 1566..1682, 1770..1880, 1770..1880, 1801..1881, 1804..1881, 1808..1882, 1994..2065, 2002..2076, 2144..2353, 2145..2351, 2145..2366		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-
Start	1	End	8055
Name	OJ000329_03.0421.C13.o3.tm	Method	TBLASTX:Maize
Start	2366	End	3447
GI	none	Score	176
Exons	2366..2407, 3029..3073, 3186..3323, 3203..3382, 3204..3323, 3317..3445, 3339..3446, 3355..3447		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-

Start	1	End	8055
Name	OJ000329_03.0421.C13.o1.tw	Method	TBLASTX:Wheat
Start	3203	End	3446
GI	none	Score	177
Exons	3203..3325, 3204..3326, 3206..3331, 3334..3444, 3335..3445, 3336..3446		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-
Start	1	End	8055
Name	OJ000329_03.0421.C13.o3.ts	Method	TBLASTX:Soybean
Start	3203	End	3958
GI	none	Score	137
Exons	3203..3382, 3204..3323, 3350..3445, 3357..3446, 3399..3446, 3739..3936, 3742..3948, 3743..3958		

Seq. No.	51159	Seq. ID	OJ000329_03.0421.C13
Gene No.	108415	Strand	-
Start	1	End	8055
Name	OJ000329_03.0421.C13.o4.tm	Method	TBLASTX:Maize
Start	3764	End	3972
GI	none	Score	150
Exons	3764..3934, 3772..3972, 3775..3936		

Seq. No.	51160	Seq. ID	OJ000329_03.0421.C15
Gene No.	108416	Strand	+
Start	45	End	3372
Name	OJ000329_03.0421.C15.o1.gs	Method	GENSCAN
Start	45	End	3277
GI	none	Score	.44
Exons	45..131, 1484..1845, 2332..3277		

Seq. No.	51160	Seq. ID	OJ000329_03.0421.C15
Gene No.	108416	Strand	+
Start	45	End	3372
Name	OJ000329_03.0421.C15.o1.np	Method	AAT/NAP
Start	48	End	3273
GI	7362770	Score	293
Exons	48..161, 1127..1198, 1285..1409, 1505..1845, 1939..2872, 3086..3273		
GI Descrip.	(AL162651) putative protein [Arabidopsis thaliana]		

Seq. No.	51160	Seq. ID	OJ000329_03.0421.C15
Gene No.	108416	Strand	+
Start	45	End	3372
Name	OJ000329_03.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	1482	End	2342
GI	none	Score	134
Exons	1482..1628, 1489..1626, 1630..1788, 1633..1782, 1773..1844, 1786..1863, 1929..2270, 1938..2273, 2152..2277, 2274..2342, 2276..2341		

Seq. No.	51160	Seq. ID	OJ000329_03.0421.C15
Gene No.	108416	Strand	+
Start	45	End	3372
Name	OJ000329_03.0421.C15.o3.tm	Method	TBLASTX:Maize
Start	2359	End	2567

GI	none	Score	198
Exons	2359..2565, 2360..2566, 2373..2567		

Seq. No.	51160	Seq. ID	OJ000329_03.0421.C15
Gene No.	108416	Strand	+
Start	45	End	3372
Name	OJ000329_03.0421.C15.o1.gp	Method	AAT/GAP
Start	2500	End	2883
GI	none	Score	718
Exons	2500..2883		

Seq. No.	51160	Seq. ID	OJ000329_03.0421.C15
Gene No.	108416	Strand	+
Start	45	End	3372
Name	OJ000329_03.0421.C15.o2.tm	Method	TBLASTX:Maize
Start	3044	End	3372
GI	none	Score	297
Exons	3044..3280, 3047..3283, 3055..3285, 3079..3372		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108417	Strand	+
Start	387	End	1723
Name	OJ000329_03.0421.C17.o1.gs	Method	GENSCAN
Start	387	End	1723
GI	none	Score	.6
Exons	387..519, 1149..1241, 1683..1723		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108417	Strand	+
Start	387	End	1723
Name	OJ000329_03.0421.C17.o1.gp	Method	AAT/GAP
Start	505	End	1056
GI	none	Score	1026
Exons	505..1056		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108418	Strand	+
Start	4766	End	6166
Name	OJ000329_03.0421.C17.o3.gs	Method	GENSCAN
Start	4766	End	6166
GI	none	Score	.56
Exons	4766..4852, 4911..4981, 5971..6166		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108419	Strand	+
Start	6690	End	7388
Name	OJ000329_03.0421.C17.o4.gs	Method	GENSCAN
Start	6690	End	7388
GI	none	Score	1
Exons	6690..7388		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108420	Strand	+
Start	11200	End	15387
Name	OJ000329_03.0421.C17.o6.gs	Method	GENSCAN
Start	11200	End	12130
GI	none	Score	1

Exons 11200..11533, 11535..12130

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108420	Strand	+
Start	11200	End	15387
Name	OJ000329_03.0421.C17.o2.np	Method	AAT/NAP
Start	11324	End	15387
GI	6751696	Score	199
Exons	11324..11555, 11645..11832, 14117..14308, 15238..15387		
GI Descrip.	(AC018908) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108420	Strand	+
Start	11200	End	15387
Name	OJ000329_03.0421.C17.o7.gs	Method	GENSCAN
Start	13586	End	15375
GI	none	Score	.57
Exons	13586..14335, 14678..14762, 15074..15375		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108421	Strand	-
Start	2383	End	4562
Name	OJ000329_03.0421.C17.o2.gs	Method	GENSCAN
Start	2383	End	4562
GI	none	Score	.46
Exons	2383..3470, 3500..4562		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108421	Strand	-
Start	2383	End	4562
Name	OJ000329_03.0421.C17.o1.np	Method	AAT/NAP
Start	2404	End	4463
GI	7486629	Score	1431
Exons	2404..4463		
GI Descrip.	hypothetical protein F8B4.130 - Arabidopsis thaliana gi 4049345 emb CAA22570.1 (AL034567) putative protein [Arabidopsis thaliana] gi 7270147 emb CAB79960.1 (AL161581) putative protein [Arabidopsis thaliana]		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108422	Strand	-
Start	8745	End	11632
Name	OJ000329_03.0421.C17.o1.tm	Method	TBLASTX:Maize
Start	2392	End	4403
GI	none	Score	213
Exons	2392..2502, 2522..3148, 2524..3510, 2962..3234, 2980..3213, 3292..3375, 3298..3510, 3311..3445, 3346..3507, 3602..3661, 3639..3905, 3639..3875, 3639..3899, 3640..3879, 3652..3906, 3777..3902, 3898..4188, 3918..4190, 3930..4202, 3930..4112, 4239..4403, 4239..4403		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108422	Strand	-
Start	8745	End	11632
Name	OJ000329_03.0421.C17.o1.ts	Method	TBLASTX:Soybean
Start	2536	End	2988
GI	none	Score	323

Exons 2536..2988

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108422	Strand	-
Start	8745	End	11632
Name	OJ000329_03.0421.C17.o2.tc	Method	TBLASTX:Cress
Start	2539	End	2856
GI	none	Score	86
Exons	2539..2856, 2609..2854		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108422	Strand	-
Start	8745	End	11632
Name	OJ000329_03.0421.C17.o1.tc	Method	TBLASTX:Cress
Start	2869	End	4250
GI	none	Score	72
Exons	2869..2985, 2977..3225, 2992..3225, 3029..3187, 3298..3456, 3298..3510, 3510..3629, 3630..3896, 3642..3923, 3802..3903, 3804..3926, 3930..4184, 3933..4250, 3961..4083		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108422	Strand	-
Start	8745	End	11632
Name	OJ000329_03.0421.C17.o2.ts	Method	TBLASTX:Soybean
Start	3049	End	4026
GI	none	Score	76
Exons	3049..3213, 3292..3435, 3323..3415, 3355..3525, 3612..3722, 3640..3756, 3642..3875, 3790..3876, 3910..4026, 3924..4025		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108422	Strand	-
Start	8745	End	11632
Name	OJ000329_03.0421.C17.o1.tw	Method	TBLASTX:Wheat
Start	3052	End	4184
GI	none	Score	78
Exons	3052..3225, 3247..3282, 3298..3441, 3308..3442, 3358..3459, 3639..3728, 3648..3875, 3679..3738, 3739..3810, 3930..4037, 3936..4013, 3954..4184		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108422	Strand	-
Start	8745	End	11632
Name	OJ000329_03.0421.C17.o2.tm	Method	TBLASTX:Maize
Start	6690	End	11632
GI	none	Score	111
Exons	6690..6794, 6690..6794, 6816..6890, 6933..6968, 11179..11304, 11196..11306, 11326..11445, 11540..11632		

Seq. No.	51161	Seq. ID	OJ000329_03.0421.C17
Gene No.	108422	Strand	-
Start	8745	End	11632
Name	OJ000329_03.0421.C17.o5.gs	Method	GENSCAN
Start	8745	End	9126
GI	none	Score	.64
Exons	8745..8852, 9058..9126		

Seq. No.	51162	Seq. ID	OJ000329_03.0421.C18
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Gene No.	108423	Strand	+
Start	253	End	899
Name	OJ000329_03.0421.C18.o1.np	Method	AAT/NAP
Start	253	End	899
GI	7362757	Score	212
Exons	253..463, 601..721, 805..899		
GI Descrip.	(AL162651) putative protein [Arabidopsis thaliana]		

Seq. No.	51162	Seq. ID	OJ000329_03.0421.C18
Gene No.	108424	Strand	+
Start	1656	End	3135
Name	OJ000329_03.0421.C18.o2.np	Method	AAT/NAP
Start	1656	End	3135
GI	5042462	Score	143
Exons	1656..1769, 2892..3135		
GI Descrip.	(AC007789) putative negatively light-regulated protein [Oryza sativa]		

Seq. No.	51162	Seq. ID	OJ000329_03.0421.C18
Gene No.	108425	Strand	+
Start	3660	End	4222
Name	OJ000329_03.0421.C18.o3.np	Method	AAT/NAP
Start	3660	End	4222
GI	5360166	Score	471
Exons	3660..4222		
GI Descrip.	(AF158186) pEachy [Rattus norvegicus]		

Seq. No.	51162	Seq. ID	OJ000329_03.0421.C18
Gene No.	108426	Strand	+
Start	5464	End	5786
Name	OJ000329_03.0421.C18.o1.gp	Method	AAT/GAP
Start	5464	End	5786
GI	3762717	Score	496
Exons	5464..5786		

Seq. No.	51162	Seq. ID	OJ000329_03.0421.C18
Gene No.	108427	Strand	-
Start	3358	End	5588
Name	OJ000329_03.0421.C18.o2.gs	Method	GENSCAN
Start	3358	End	5588
GI	none	Score	.71
Exons	3358..3535, 3634..3740, 3851..4198, 5311..5588		

Seq. No.	51162	Seq. ID	OJ000329_03.0421.C18
Gene No.	108427	Strand	-
Start	3358	End	5588
Name	OJ000329_03.0421.C18.o1.tc	Method	TBLASTX:Cress
Start	3660	End	4186
GI	none	Score	207
Exons	3660..3839, 3683..3808, 3881..4186, 3970..4173		

Seq. No.	51162	Seq. ID	OJ000329_03.0421.C18
Gene No.	108427	Strand	-
Start	3358	End	5588
Name	OJ000329_03.0421.C18.o1.ts	Method	TBLASTX:Soybean
Start	3660	End	4219
GI	none	Score	226

Exons 3660..3839, 3683..3808, 3878..4186, 3880..4179, 4100..4219

Seq. No.	51162	Seq. ID	OJ000329_03.0421.C18
Gene No.	108427	Strand	-
Start	3358	End	5588
Name	OJ000329_03.0421.C18.o1.tm	Method	TBLASTX:Maize
Start	3660	End	3897
GI	none	Score	281
Exons	3660..3839, 3692..3781, 3877..3897		

Seq. No.	51162	Seq. ID	OJ000329_03.0421.C18
Gene No.	108427	Strand	-
Start	3358	End	5588
Name	OJ000329_03.0421.C18.o2.tm	Method	TBLASTX:Maize
Start	4073	End	4246
GI	none	Score	189
Exons	4073..4189, 4075..4182, 4100..4246, 4170..4235		

Seq. No.	51163	Seq. ID	OJ000329_03.0421.C20
Gene No.	108428	Strand	+
Start	333	End	2198
Name	OJ000329_03.0421.C20.o1.tw	Method	TBLASTX:Wheat
Start	323	End	1779
GI	none	Score	49
Exons	323..367, 578..607, 644..661, 799..825, 823..852, 824..853, 824..853, 860..913, 862..915, 882..923, 909..977, 924..1118, 951..1019, 1005..1118, 1040..1120, 1663..1692, 1728..1775, 1729..1773, 1744..1779		

Seq. No.	51163	Seq. ID	OJ000329_03.0421.C20
Gene No.	108428	Strand	+
Start	333	End	2198
Name	OJ000329_03.0421.C20.o1.np	Method	AAT/NAP
Start	333	End	1533
GI	7440943	Score	240
Exons	333..607, 795..1118, 1485..1533		
GI Descrip.	ribosomal protein L19.T2H3.3 - Arabidopsis thaliana gi 3377797 gb AAC28170.1 (AF075597) Similar to 60S ribosome protein L19; coded for by A. thaliana cDNA T04719; coded for by A. thaliana cDNA H36046; coded for by A. thaliana cDNA T44067; coded for by A. thaliana cDNA T14056; coded for by A. thaliana cDNA R90691 [Arabidopsis th>		

Seq. No.	51163	Seq. ID	OJ000329_03.0421.C20
Gene No.	108428	Strand	+
Start	333	End	2198
Name	OJ000329_03.0421.C20.o1.tm	Method	TBLASTX:Maize
Start	580	End	1119
GI	none	Score	45
Exons	580..615, 802..852, 819..854, 824..886, 862..915, 866..913, 882..917, 909..1118, 924..1118, 931..1119, 1033..1119		

Seq. No.	51163	Seq. ID	OJ000329_03.0421.C20
Gene No.	108428	Strand	+
Start	333	End	2198
Name	OJ000329_03.0421.C20.o1.tc	Method	TBLASTX:Cress
Start	824	End	1118

GI	none	Score	55
Exons	824..853, 862..915, 909..1118, 924..1118		
Seq. No.	51163	Seq. ID	OJ000329_03.0421.C20
Gene No.	108428	Strand	+
Start	333	End	2198
Name	OJ000329_03.0421.C20.o1.ts	Method	TBLASTX:Soybean
Start	824	End	1118
GI	none	Score	56
Exons	824..853, 824..853, 862..915, 875..913, 909..1106, 924..1118		

Seq. No.	51163	Seq. ID	OJ000329_03.0421.C20
Gene No.	108428	Strand	+
Start	333	End	2198
Name	OJ000329_03.0421.C20.o1.gs	Method	GENSCAN
Start	960	End	2198
GI	none	Score	.8
Exons	960..1099, 2152..2198		

Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108429	Strand	+
Start	1	End	4578
Name	OJ000329_03.0421.C21.o1.np	Method	AAT/NAP
Start	1	End	4578
GI	6069646	Score	716
Exons	1..51, 2674..3312, 3595..4578		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108430	Strand	+
Start	5714	End	6031
Name	OJ000329_03.0421.C21.o2.np	Method	AAT/NAP
Start	5664	End	6022
GI	7486668	Score	178
Exons	5664..6022		
GI Descrip.	hypothetical protein F8F16.200 - Arabidopsis thaliana gi 2827533 emb CAA16541.1 (AL021633) hypothetical protein [Arabidopsis thaliana] gi 7270040 emb CAB79856.1 (AL161578) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108430	Strand	+
Start	5714	End	6031
Name	OJ000329_03.0421.C21.o2.gs	Method	GENSCAN
Start	5714	End	6031
GI	none	Score	.73
Exons	5714..6031		

Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108431	Strand	-
Start	6064	End	6152
Name	OJ000329_03.0421.C21.o4.tm	Method	TBLASTX:Maize
Start	2675	End	2866

GI	none	Score	199
Exons	2675..2866, 2686..2865		
Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108431	Strand	-
Start	6064	End	6152
Name	OJ000329_03.0421.C21.o1.tm	Method	TBLASTX:Maize
Start	2873	End	3525
GI	none	Score	80
Exons	2873..2962, 2952..3434, 2953..3525		
Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108431	Strand	-
Start	6064	End	6152
Name	OJ000329_03.0421.C21.o1.tw	Method	TBLASTX:Wheat
Start	3166	End	3606
GI	none	Score	224
Exons	3166..3462, 3168..3431, 3448..3606, 3513..3605		
Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108431	Strand	-
Start	6064	End	6152
Name	OJ000329_03.0421.C21.o5.tm	Method	TBLASTX:Maize
Start	3528	End	3738
GI	none	Score	191
Exons	3528..3734, 3529..3738		
Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108431	Strand	-
Start	6064	End	6152
Name	OJ000329_03.0421.C21.o2.tw	Method	TBLASTX:Wheat
Start	3820	End	4153
GI	none	Score	72
Exons	3820..3900, 3821..3901, 3974..4153, 3997..4149		
Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108431	Strand	-
Start	6064	End	6152
Name	OJ000329_03.0421.C21.o2.tm	Method	TBLASTX:Maize
Start	4093	End	4372
GI	none	Score	318
Exons	4093..4245, 4100..4372, 4103..4288		
Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108431	Strand	-
Start	6064	End	6152
Name	OJ000329_03.0421.C21.o3.tm	Method	TBLASTX:Maize
Start	5717	End	5992
GI	none	Score	46
Exons	5717..5746, 5719..5784, 5756..5992, 5870..5905, 5896..5991		
Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108431	Strand	-
Start	6064	End	6152
Name	OJ000329_03.0421.C21.o1.ts	Method	TBLASTX:Soybean
Start	5726	End	6022
GI	none	Score	42

Exons 5726..5767, 5783..5911, 5927..6022

Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108431	Strand	-
Start	6064	End	6152
Name	OJ000329_03.0421.C21.o1.tc	Method	TBLASTX:Cress
Start	5783	End	6025
GI	none	Score	195
Exons	5783..6025, 5923..6021		

Seq. No.	51164	Seq. ID	OJ000329_03.0421.C21
Gene No.	108431	Strand	-
Start	6064	End	6152
Name	OJ000329_03.0421.C21.o2.gp	Method	AAT/GAP
Start	6064	End	6152
GI	LIB3477-003-P1-K1-E9	Score	132
Exons	6064..6152		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	51165	Seq. ID	OJ000329_03.0421.C26
Gene No.	108432	Strand	+
Start	2575	End	2802
Name	OJ000329_03.0421.C26.o2.gs	Method	GENSCAN
Start	2575	End	2802
GI	none	Score	.99
Exons	2575..2802		

Seq. No.	51165	Seq. ID	OJ000329_03.0421.C26
Gene No.	108433	Strand	-
Start	1	End	1304
Name	OJ000329_03.0421.C26.o1.np	Method	AAT/NAP
Start	1	End	1304
GI	6175480	Score	598
Exons	1..33, 350..441, 536..665, 764..838, 1041..1151, 1245..1304		
GI Descrip.	XYLOSE ISOMERASE gi 2130052 pir S65467 xylose isomerase (EC 5.3.1.5) - barley gi 1296809 emb CAA64545 (X95257) xylose isomerase [Hordeum vulgare]		

Seq. No.	51165	Seq. ID	OJ000329_03.0421.C26
Gene No.	108433	Strand	-
Start	1	End	1304
Name	OJ000329_03.0421.C26.o1.tm	Method	TBLASTX:Maize
Start	349	End	1151
GI	none	Score	136
Exons	349..420, 353..442, 354..443, 357..440, 528..707, 528..707, 529..708, 757..840, 758..841, 764..850, 1041..1151, 1042..1149		

Seq. No.	51165	Seq. ID	OJ000329_03.0421.C26
Gene No.	108433	Strand	-
Start	1	End	1304
Name	OJ000329_03.0421.C26.o1.gs	Method	GENSCAN
Start	350	End	1301
GI	none	Score	.82
Exons	350..441, 536..665, 764..838, 1041..1151, 1245..1301		

Seq. No.	51165	Seq. ID	OJ000329_03.0421.C26
Gene No.	108433	Strand	-
Start	1	End	1304
Name	OJ000329_03.0421.C26.o1.ts	Method	TBLASTX:Soybean
Start	353	End	1151
GI	none	Score	105
Exons	353..442, 357..440, 517..708, 528..707, 536..718, 738..839, 758..850, 764..850, 780..863, 1011..1094, 1024..1098, 1098..1151, 1102..1137		

Seq. No.	51165	Seq. ID	OJ000329_03.0421.C26
Gene No.	108433	Strand	-
Start	1	End	1304
Name	OJ000329_03.0421.C26.o1.tc	Method	TBLASTX:Cress
Start	377	End	1136
GI	none	Score	74
Exons	377..439, 377..439, 535..708, 537..707, 738..839, 755..850, 755..850, 780..854, 1024..1098, 1041..1094, 1098..1136		

Seq. No.	51166	Seq. ID	OJ000329_03.0421.C27
Gene No.	108434	Strand	+
Start	1	End	7195
Name	OJ000329_03.0421.C27.o1.np	Method	AAT/NAP
Start	1	End	1153
GI	7428735	Score	549
Exons	1..216, 427..700, 860..1153		
GI Descrip.	GTP-binding protein obg - Aquifex aeolicus gi 2984292 gb AAC07816.1 (AE000771) GTP-binding protein [Aquifex aeolicus]		

Seq. No.	51166	Seq. ID	OJ000329_03.0421.C27
Gene No.	108434	Strand	+
Start	1	End	7195
Name	OJ000329_03.0421.C27.o1.gs	Method	GENSCAN
Start	93	End	7195
GI	none	Score	.69
Exons	93..216, 435..700, 860..1151, 1413..1572, 1730..1838, 4340..4534, 6023..6082, 6668..6958, 7067..7195		

Seq. No.	51166	Seq. ID	OJ000329_03.0421.C27
Gene No.	108434	Strand	+
Start	1	End	7195
Name	OJ000329_03.0421.C27.o1.gp	Method	AAT/GAP
Start	1716	End	2175
GI	none	Score	688
Exons	1716..1838, 1925..2175		

Seq. No.	51166	Seq. ID	OJ000329_03.0421.C27
Gene No.	108435	Strand	+
Start	11046	End	14743
Name	OJ000329_03.0421.C27.o4.np	Method	AAT/NAP
Start	11046	End	14274
GI	5852093	Score	39
Exons	11046..11148, 12427..12567, 14252..14274		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	51166	Seq. ID	OJ000329_03.0421.C27
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Gene No.	108435	Strand	+
Start	11046	End	14743
Name	OJ000329_03.0421.C27.o4.gs	Method	GENSCAN
Start	13363	End	14743
GI	none	Score	.46
Exons	13363..13562, 14674..14743		

Seq. No.	51166	Seq. ID	OJ000329_03.0421.C27
Gene No.	108436	Strand	-
Start	9833	End	10922
Name	OJ000329_03.0421.C27.o2.np	Method	AAT/NAP
Start	9833	End	10922
GI	6815053	Score	657
Exons	9833..10070, 10120..10275, 10776..10922		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	51166	Seq. ID	OJ000329_03.0421.C27
Gene No.	108437	Strand	-
Start	12169	End	13679
Name	OJ000329_03.0421.C27.o1.tm	Method	TBLASTX:Maize
Start	161	End	1826
GI	none	Score	84
Exons	161..220, 161..217, 163..222, 421..702, 426..737, 428..688, 858..1151, 860..1159, 871..1152, 1407..1574, 1414..1593, 1415..1573, 1716..1826, 1721..1795, 1740..1823		

Seq. No.	51166	Seq. ID	OJ000329_03.0421.C27
Gene No.	108437	Strand	-
Start	12169	End	13679
Name	OJ000329_03.0421.C27.o1.ts	Method	TBLASTX:Soybean
Start	610	End	1123
GI	none	Score	135
Exons	610..702, 611..688, 846..1037, 846..1004, 860..1123, 863..1009, 871..1104		

Seq. No.	51166	Seq. ID	OJ000329_03.0421.C27
Gene No.	108437	Strand	-
Start	12169	End	13679
Name	OJ000329_03.0421.C27.o1.tc	Method	TBLASTX:Cress
Start	858	End	1143
GI	none	Score	311
Exons	858..1019, 860..1129, 863..1126, 871..1143		

Seq. No.	51166	Seq. ID	OJ000329_03.0421.C27
Gene No.	108437	Strand	-
Start	12169	End	13679
Name	OJ000329_03.0421.C27.o3.np	Method	AAT/NAP
Start	12169	End	13679
GI	5852093	Score	75
Exons	12169..12366, 13614..13679		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	51167	Seq. ID	OJ000329_03.0421.C28
Gene No.	108438	Strand	-
Start	804	End	1448
Name	OJ000329_03.0421.C28.o1.np	Method	AAT/NAP
Start	804	End	1448

GI	6069646	Score	311
Exons	804..1448		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	51167	Seq. ID	OJ000329_03.0421.C28
Gene No.	108438	Strand	-
Start	804	End	1448
Name	OJ000329_03.0421.C28.o1.tw	Method	TBLASTX:Wheat
Start	822	End	1223
GI	none	Score	97
Exons	822..995, 1074..1223		

Seq. No.	51167	Seq. ID	OJ000329_03.0421.C28
Gene No.	108438	Strand	-
Start	804	End	1448
Name	OJ000329_03.0421.C28.o1.tm	Method	TBLASTX:Maize
Start	1009	End	1291
GI	none	Score	124
Exons	1009..1290, 1011..1286, 1175..1291		

Seq. No.	51167	Seq. ID	OJ000329_03.0421.C28
Gene No.	108438	Strand	-
Start	804	End	1448
Name	OJ000329_03.0421.C28.o2.tw	Method	TBLASTX:Wheat
Start	1230	End	1392
GI	none	Score	84
Exons	1230..1391, 1249..1392		

Seq. No.	51168	Seq. ID	OJ991211_63.0419.C4
Gene No.	108439	Strand	-
Start	2343	End	7427
Name	OJ991211_63.0419.C4.o2.gs	Method	GENSCAN
Start	2343	End	7427
GI	none	Score	.48
Exons	2343..2489, 5766..5846, 6086..6166, 7356..7427		

Seq. No.	51169	Seq. ID	OJ991211_63.0419.C7
Gene No.	108440	Strand	+
Start	499	End	755
Name	OJ991211_63.0419.C7.o1.gs	Method	GENSCAN
Start	499	End	755
GI	none	Score	.57
Exons	499..755		

Seq. No.	51170	Seq. ID	OJ991211_63.0419.C8
Gene No.	108441	Strand	+
Start	173	End	1277
Name	OJ991211_63.0419.C8.o1.gs	Method	GENSCAN
Start	173	End	1277
GI	none	Score	.76
Exons	173..253, 328..573, 803..1048, 1123..1277		

Seq. No.	51171	Seq. ID	OJ991121_44.0419.C5
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Gene No. 108442
 Start 98
 Name OJ991121_44.0419.C5.o1.gs
 Start 98
 GI none
 Exons 98..231

Strand +
 End 231
 Method GENSCAN
 End 231
 Score .48

Seq. No. 51171
 Gene No. 108443
 Start 1366
 Name OJ991121_44.0419.C5.o2.gs
 Start 1366
 GI none
 Exons 1366..1469

Seq. ID OJ991121_44.0419.C5
 Strand -
 End 1469
 Method GENSCAN
 End 1469
 Score .63

Seq. No. 51172
 Gene No. 108444
 Start 163
 Name OJ991121_44.0419.C6.o1.gs
 Start 163
 GI none
 Exons 163..614

Seq. ID OJ991121_44.0419.C6
 Strand -
 End 733
 Method GENSCAN
 End 614
 Score .45

Seq. No. 51172
 Gene No. 108444
 Start 163
 Name OJ991121_44.0419.C6.o1.np
 Start 166
 GI 4680179
 Exons 166..733

Seq. ID OJ991121_44.0419.C6
 Strand -
 End 733
 Method AAT/NAP
 End 733
 Score 754

GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 51172
 Gene No. 108444
 Start 163
 Name OJ991121_44.0419.C6.o1.tw
 Start 211
 GI none
 Exons 211..633, 275..598, 426..638

Seq. ID OJ991121_44.0419.C6
 Strand -
 End 733
 Method TBLASTX:Wheat
 End 638
 Score 187

Seq. No. 51172
 Gene No. 108444
 Start 163
 Name OJ991121_44.0419.C6.o1.tm
 Start 307
 GI none
 Exons 307..567, 308..568

Seq. ID OJ991121_44.0419.C6
 Strand -
 End 733
 Method TBLASTX:Maize
 End 568
 Score 176

Seq. No. 51173
 Gene No. 108445
 Start 509
 Name OJ991121_44.0419.C11.o1.gs
 Start 509
 GI none
 Exons 509..885, 910..1049, 1051..1214

Seq. ID OJ991121_44.0419.C11
 Strand +
 End 1214
 Method GENSCAN
 End 1214
 Score .77

Seq. No. 51173

Seq. ID OJ991121_44.0419.C11

Gene No.	108446	Strand	-
Start	1	End	1501
Name	OJ991121_44.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	1501
GI	5852180	Score	526
Exons	1..33, 595..1042, 1094..1213, 1424..1501		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51174	Seq. ID	OJ991121_44.0419.C13
Gene No.	108447	Strand	+
Start	9	End	398
Name	OJ991121_44.0419.C13.o1.gp	Method	AAT/GAP
Start	9	End	398
GI	uC-osflcyp033a04b1	Score	653
Exons	9..398		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51174	Seq. ID	OJ991121_44.0419.C13
Gene No.	108448	Strand	-
Start	1	End	1095
Name	OJ991121_44.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1095
GI	4680186	Score	198
Exons	1..141, 984..1095		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51175	Seq. ID	OJ991121_44.0419.C14
Gene No.	108449	Strand	-
Start	1	End	774
Name	OJ991121_44.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	774
GI	7248394	Score	569
Exons	1..327, 595..774		
GI Descrip.	(AP001389) ESTs C97394(C60113), AU075824(R0165), D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	51175	Seq. ID	OJ991121_44.0419.C14
Gene No.	108449	Strand	-
Start	1	End	774
Name	OJ991121_44.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	2	End	142
GI	none	Score	80
Exons	2..142, 11..142		

Seq. No.	51175	Seq. ID	OJ991121_44.0419.C14
Gene No.	108449	Strand	-
Start	1	End	774
Name	OJ991121_44.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	59	End	464
GI	none	Score	152
Exons	59..412, 74..403, 102..404, 407..463, 417..464		

Seq. No.	51175	Seq. ID	OJ991121_44.0419.C14
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Gene No.	108449	Strand	-
Start	1	End	774
Name	OJ991121_44.0419.C14.o1.gs	Method	GENSCAN
Start	68	End	610
GI	none	Score	.4
Exons	68..610		

Seq. No.	51175	Seq. ID	OJ991121_44.0419.C14
Gene No.	108449	Strand	-
Start	1	End	774
Name	OJ991121_44.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	144	End	409
GI	none	Score	247
Exons	144..404, 144..398, 146..409, 146..409		

Seq. No.	51175	Seq. ID	OJ991121_44.0419.C14
Gene No.	108449	Strand	-
Start	1	End	774
Name	OJ991121_44.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	260	End	614
GI	none	Score	68
Exons	260..394, 401..613, 435..614		

Seq. No.	51176	Seq. ID	OJ991121_44.0419.C18
Gene No.	108450	Strand	-
Start	53	End	934
Name	OJ991121_44.0419.C18.o1.gs	Method	GENSCAN
Start	53	End	934
GI	none	Score	.84
Exons	53..439, 886..934		

Seq. No.	51177	Seq. ID	OJ991121_44.0419.C19
Gene No.	108451	Strand	+
Start	918	End	1121
Name	OJ991121_44.0419.C19.o1.gs	Method	GENSCAN
Start	918	End	1121
GI	none	Score	.97
Exons	918..1121		

Seq. No.	51177	Seq. ID	OJ991121_44.0419.C19
Gene No.	108452	Strand	-
Start	1478	End	3481
Name	OJ991121_44.0419.C19.o1.gp	Method	AAT/GAP
Start	1478	End	2266
GI	3762465	Score	1219
Exons	1478..2053, 2156..2266		
GI Descrip.	4191791 3.0e-29 (AC005917) putative sf21 (Helianthus annuus) protein [Arabidopsis thaliana]		

Seq. No.	51177	Seq. ID	OJ991121_44.0419.C19
Gene No.	108452	Strand	-
Start	1478	End	3481
Name	OJ991121_44.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	1817	End	3474
GI	none	Score	230
Exons	1817..2056, 1845..2054, 2153..2338, 2154..2333, 2383..2433, 2546..2608, 2685..2792, 2839..2946, 2846..2947, 3019..3087,		

3023..3073, 3176..3268, 3360..3458, 3370..3474

Seq. No.	51177	Seq. ID	OJ991121_44.0419.C19
Gene No.	108452	Strand	-
Start	1478	End	3481
Name	OJ991121_44.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	1830	End	2421
GI	none	Score	317
Exons	1830..2054, 1832..2083, 1876..2067, 2147..2293, 2149..2322, 2153..2332, 2154..2297, 2281..2421, 2387..2419		

Seq. No.	51177	Seq. ID	OJ991121_44.0419.C19
Gene No.	108452	Strand	-
Start	1478	End	3481
Name	OJ991121_44.0419.C19.o2.gs	Method	GENSCAN
Start	1832	End	3265
GI	none	Score	.73
Exons	1832..2053, 2156..2291, 2381..2436, 2543..2599, 2848..2957, 3022..3265		

Seq. No.	51177	Seq. ID	OJ991121_44.0419.C19
Gene No.	108452	Strand	-
Start	1478	End	3481
Name	OJ991121_44.0419.C19.o2.tc	Method	TBLASTX:Cress
Start	1832	End	2042
GI	none	Score	63
Exons	1832..2023, 1838..2041, 1851..2042		

Seq. No.	51177	Seq. ID	OJ991121_44.0419.C19
Gene No.	108452	Strand	-
Start	1478	End	3481
Name	OJ991121_44.0419.C19.o1.np	Method	AAT/NAP
Start	1835	End	3481
GI	4191791	Score	848
Exons	1835..2053, 2156..2291, 2381..2436, 2543..2601, 2690..2765, 2848..2934, 3022..3082, 3177..3265, 3363..3481		
GI Descrip.	(AC005917) putative SF21 protein {Helianthus annuus} [Arabidopsis thaliana]		

Seq. No.	51177	Seq. ID	OJ991121_44.0419.C19
Gene No.	108452	Strand	-
Start	1478	End	3481
Name	OJ991121_44.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	2544	End	3474
GI	none	Score	73
Exons	2544..2600, 2546..2608, 2651..2767, 2685..2789, 2845..2946, 2846..2947, 3017..3082, 3022..3087, 3023..3082, 3039..3065, 3176..3268, 3179..3262, 3193..3285, 3375..3458, 3385..3459, 3385..3474		

Seq. No.	51177	Seq. ID	OJ991121_44.0419.C19
Gene No.	108452	Strand	-
Start	1478	End	3481
Name	OJ991121_44.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	2697	End	3474
GI	none	Score	102
Exons	2697..2768, 2837..2953, 2839..2946, 3019..3087, 3023..3079,		

3167..3262, 3176..3268, 3360..3458, 3370..3474

Seq. No.	51178	Seq. ID	OJ991121_44.0419.C20
Gene No.	108453	Strand	-
Start	539	End	657
Name	OJ991121_44.0419.C20.o1.gp	Method	AAT/GAP
Start	539	End	657
GI	82020_1.R1084	Score	208
Exons	539..657		
GI Descrip.	'4191791 3.0e-31 (AC005917) putative sf21 {Helianthus annuus} protein [Arabidopsis thaliana]'		

Seq. No.	51178	Seq. ID	OJ991121_44.0419.C20
Gene No.	108453	Strand	-
Start	539	End	657
Name	OJ991121_44.0419.C20.o1.gs	Method	GENSCAN
Start	540	End	599
GI	none	Score	.51
Exons	540..599		

Seq. No.	51179	Seq. ID	OJ991121_44.0419.C21
Gene No.	108454	Strand	+
Start	932	End	3502
Name	OJ991121_44.0419.C21.o1.gs	Method	GENSCAN
Start	932	End	3502
GI	none	Score	.41
Exons	932..1370, 1399..1576, 1653..1720, 3134..3502		

Seq. No.	51179	Seq. ID	OJ991121_44.0419.C21
Gene No.	108455	Strand	+
Start	4701	End	5294
Name	OJ991121_44.0419.C21.o2.gs	Method	GENSCAN
Start	4701	End	5294
GI	none	Score	.79
Exons	4701..4785, 5185..5294		

Seq. No.	51180	Seq. ID	OJ991121_44.0419.C22
Gene No.	108456	Strand	+
Start	1982	End	5740
Name	OJ991121_44.0419.C22.o1.gs	Method	GENSCAN
Start	1982	End	5740
GI	none	Score	.58
Exons	1982..2049, 4666..4748, 5346..5740		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108457	Strand	+
Start	1021	End	2437
Name	OJ991121_44.0419.C23.o2.gs	Method	GENSCAN
Start	1021	End	2437
GI	none	Score	.6
Exons	1021..1042, 1301..1401, 1450..1594, 1814..1892, 2305..2437		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108458	Strand	-
Start	1	End	909
Name	OJ991121_44.0419.C23.o1.gp	Method	AAT/GAP
Start	1	End	358

GI	4881122	Score	471
Exons	1..80, 182..358		
GI Descrip.	3288564/emb CAA65776 8.0e-43 (X97066) 1-aminocyclopropane-1-carboxylic acid synthase [Oryza sativa]		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108458	Strand	-
Start	1	End	909
Name	OJ991121_44.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	795
GI	7437167	Score	916
Exons	1..80, 182..343, 469..795		
GI Descrip.	probable 1-aminocyclopropane-1-carboxylate synthase (EC 4.4.1.14) - rice gi 3288564 emb CAA65776.1 (X97066) 1-aminocyclopropane-1-carboxylic acid synthase [Oryza sativa]		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108458	Strand	-
Start	1	End	909
Name	OJ991121_44.0419.C23.o1.gs	Method	GENSCAN
Start	183	End	795
GI	none	Score	1
Exons	183..343, 469..795		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108458	Strand	-
Start	1	End	909
Name	OJ991121_44.0419.C23.o2.gp	Method	AAT/GAP
Start	660	End	909
GI	65275_2.R1084	Score	451
Exons	660..909		
GI Descrip.	'3288564/emb CAA65776 1.0e-14 (X97066) 1-aminocyclopropane-1-carboxylic acid synthase [Oryza sativa]'		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108459	Strand	-
Start	2843	End	3983
Name	OJ991121_44.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	1	End	744
GI	none	Score	97
Exons	1..87, 3..95, 188..346, 189..347, 469..522, 562..744, 611..718		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108459	Strand	-
Start	2843	End	3983
Name	OJ991121_44.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	3	End	744
GI	none	Score	67
Exons	3..95, 16..78, 182..343, 183..344, 472..522, 562..744, 611..733		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108459	Strand	-
Start	2843	End	3983
Name	OJ991121_44.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	3	End	522
GI	none	Score	146
Exons	3..95, 182..346, 183..347, 285..383, 469..522, 485..502		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108459	Strand	-
Start	2843	End	3983
Name	OJ991121_44.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	562	End	744
GI	none	Score	85
Exons	562..744, 602..733		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108459	Strand	-
Start	2843	End	3983
Name	OJ991121_44.0419.C23.o3.tm	Method	TBLASTX:Maize
Start	2544	End	2661
GI	none	Score	190
Exons	2544..2660, 2545..2661, 2545..2661		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108459	Strand	-
Start	2843	End	3983
Name	OJ991121_44.0419.C23.o2.tc	Method	TBLASTX:Cress
Start	2834	End	3118
GI	none	Score	321
Exons	2834..3085, 2837..3118		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108459	Strand	-
Start	2843	End	3983
Name	OJ991121_44.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	2843	End	3091
GI	none	Score	235
Exons	2843..3091, 2844..2990, 2845..3090		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108459	Strand	-
Start	2843	End	3983
Name	OJ991121_44.0419.C23.o3.gs	Method	GENSCAN
Start	2843	End	3983
GI	none	Score	.57
Exons	2843..3104, 3882..3983		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108459	Strand	-
Start	2843	End	3983
Name	OJ991121_44.0419.C23.o2.np	Method	AAT/NAP
Start	2846	End	3091
GI	82231	Score	416
Exons	2846..3091		
GI Descrip.	hypothetical protein 82 - common tobacco chloroplast gi 225200 prf 1211235AE ORF 82 [Nicotiana tabacum]		

Seq. No.	51181	Seq. ID	OJ991121_44.0419.C23
Gene No.	108459	Strand	-
Start	2843	End	3983
Name	OJ991121_44.0419.C23.o2.ts	Method	TBLASTX:Soybean
Start	2856	End	2974
GI	none	Score	133

Exons 2856..2972, 2858..2974, 2864..2974

Seq. No.	51182	Seq. ID	OJ991121_44.0419.C24
Gene No.	108460	Strand	+
Start	2163	End	3164
Name	OJ991121_44.0419.C24.o1.gs	Method	GENSCAN
Start	2163	End	3164
GI	none	Score	.54
Exons	2163..2261, 3123..3164		

Seq. No.	51183	Seq. ID	OJ991121_44.0419.C25
Gene No.	108461	Strand	+
Start	299	End	482
Name	OJ991121_44.0419.C25.o1.gs	Method	GENSCAN
Start	299	End	482
GI	none	Score	.82
Exons	299..482		

Seq. No.	51184	Seq. ID	OJ991121_44.0419.C27
Gene No.	108462	Strand	+
Start	1	End	1796
Name	OJ991121_44.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	1796
GI	7487190	Score	298
Exons	1..165, 384..567, 609..667, 698..879, 1717..1796		
GI Descrip.	hypothetical protein T19L18.1 - Arabidopsis thaliana (fragment)		

Seq. No.	51184	Seq. ID	OJ991121_44.0419.C27
Gene No.	108462	Strand	+
Start	1	End	1796
Name	OJ991121_44.0419.C27.o1.gs	Method	GENSCAN
Start	371	End	964
GI	none	Score	.46
Exons	371..964		

Seq. No.	51184	Seq. ID	OJ991121_44.0419.C27
Gene No.	108462	Strand	+
Start	1	End	1796
Name	OJ991121_44.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	475	End	756
GI	none	Score	98
Exons	475..522, 476..532, 529..603, 530..676, 534..680, 673..756, 674..736		

Seq. No.	51184	Seq. ID	OJ991121_44.0419.C27
Gene No.	108462	Strand	+
Start	1	End	1796
Name	OJ991121_44.0419.C27.o2.tm	Method	TBLASTX:Maize
Start	811	End	1079
GI	none	Score	187
Exons	811..960, 812..967, 975..1016, 980..1024, 1011..1079		

Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108463	Strand	+
Start	639	End	2291
Name	OJ991121_44.0419.C28.o1.gs	Method	GENSCAN
Start	639	End	2274

GI	none	Score	.9
Exons	639..794, 943..1371, 1492..2274		
Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108463	Strand	+
Start	639	End	2291
Name	OJ991121_44.0419.C28.o1.np	Method	AAT/NAP
Start	1466	End	2291
GI	6671932	Score	605
Exons	1466..2291		
GI Descrip.	(AC016795) unknown protein [Arabidopsis thaliana]		
Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108464	Strand	-
Start	2254	End	2446
Name	OJ991121_44.0419.C28.o1.gp	Method	AAT/GAP
Start	2254	End	2446
GI	1765_5.R1084	Score	298
Exons	2254..2446		
GI Descrip.	'3288564/emb CAA65776 8.0e-43 (X97066) 1-aminocyclopropane-1-carboxylic acid synthase [Oryza sativa]'		
Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108465	Strand	-
Start	3071	End	6953
Name	OJ991121_44.0419.C28.o2.tc	Method	TBLASTX:Cress
Start	1471	End	1899
GI	none	Score	104
Exons	1471..1590, 1472..1579, 1587..1865, 1588..1845, 1873..1899		
Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108465	Strand	-
Start	3071	End	6953
Name	OJ991121_44.0419.C28.o3.tm	Method	TBLASTX:Maize
Start	1493	End	1806
GI	none	Score	93
Exons	1493..1579, 1504..1590, 1587..1805, 1588..1806		
Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108465	Strand	-
Start	3071	End	6953
Name	OJ991121_44.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	1642	End	2043
GI	none	Score	212
Exons	1642..1845, 1653..1844, 1849..1944, 1924..2043, 1933..2040		
Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108465	Strand	-
Start	3071	End	6953
Name	OJ991121_44.0419.C28.o2.tm	Method	TBLASTX:Maize
Start	1882	End	2052
GI	none	Score	269
Exons	1882..2052, 1882..2052		
Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108465	Strand	-
Start	3071	End	6953

Name	OJ991121_44.0419.C28.o2.gs	Method	GENSCAN
Start	3071	End	6937
GI	none	Score	.82
Exons	3071..3268, 3358..3510, 3595..3810, 4002..4196, 5194..5310, 5826..6086, 6608..6753, 6854..6937		

Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108465	Strand	-
Start	3071	End	6953
Name	OJ991121_44.0419.C28.o4.tm	Method	TBLASTX:Maize
Start	3080	End	5263
GI	none	Score	140
Exons	3080..3274, 3084..3266, 3095..3271, 3358..3444, 3588..3698, 3594..3641, 3595..3696, 4066..4143, 4140..4199, 5180..5263, 5192..5260, 5194..5262		

Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108465	Strand	-
Start	3071	End	6953
Name	OJ991121_44.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	5218	End	5720
GI	none	Score	67
Exons	5218..5484, 5252..5479, 5571..5672, 5571..5672, 5672..5716, 5676..5720		

Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108465	Strand	-
Start	3071	End	6953
Name	OJ991121_44.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	5287	End	6953
GI	none	Score	88
Exons	5287..5361, 5287..5484, 5291..5497, 5569..5673, 5571..5672, 5576..5674, 5672..5755, 5673..5756, 5674..5757, 5844..5996, 6568..6684, 6605..6718, 6623..6703, 6852..6953, 6852..6938		

Seq. No.	51185	Seq. ID	OJ991121_44.0419.C28
Gene No.	108465	Strand	-
Start	3071	End	6953
Name	OJ991121_44.0419.C28.o2.ts	Method	TBLASTX:Soybean
Start	5380	End	5794
GI	none	Score	56
Exons	5380..5484, 5574..5672, 5583..5672, 5672..5794, 5676..5732		

Seq. No.	51186	Seq. ID	OJ991121_44.0419.C29
Gene No.	108466	Strand	+
Start	2163	End	8164
Name	OJ991121_44.0419.C29.o2.np	Method	AAT/NAP
Start	2163	End	7363
GI	6523547	Score	333
Exons	2163..2229, 3543..3933, 4920..4972, 5651..5708, 6527..6855, 6889..7120, 7287..7363		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	51186	Seq. ID	OJ991121_44.0419.C29
Gene No.	108466	Strand	+
Start	2163	End	8164

Name	OJ991121_44.0419.C29.o2.gs	Method	GENSCAN
Start	6650	End	8164
GI	none	Score	.96
Exons	6650..7240, 7325..7510, 8055..8164		

Seq. No.	51186	Seq. ID	OJ991121_44.0419.C29
Gene No.	108467	Strand	-
Start	233	End	5729
Name	OJ991121_44.0419.C29.o1.gs	Method	GENSCAN
Start	233	End	5729
GI	none	Score	.6
Exons	233..520, 703..871, 1404..1481, 1761..1823, 1919..2013, 3931..4047, 4191..4341, 4950..5037, 5183..5315, 5386..5625, 5663..5729		

Seq. No.	51186	Seq. ID	OJ991121_44.0419.C29
Gene No.	108467	Strand	-
Start	233	End	5729
Name	OJ991121_44.0419.C29.o1.np	Method	AAT/NAP
Start	461	End	2246
GI	6729048	Score	109
Exons	461..520, 703..874, 1404..1481, 1761..1823, 1916..2010, 2135..2246		

GI Descrip. (AC009177) unknown protein, 3' partial [Arabidopsis thaliana]

Seq. No.	51186	Seq. ID	OJ991121_44.0419.C29
Gene No.	108467	Strand	-
Start	233	End	5729
Name	OJ991121_44.0419.C29.o2.tm	Method	TBLASTX:Maize
Start	1752	End	2211
GI	none	Score	52
Exons	1752..1826, 1753..1809, 1904..1987, 1913..1987, 1977..2009, 1978..2010, 2119..2211, 2133..2207		

Seq. No.	51186	Seq. ID	OJ991121_44.0419.C29
Gene No.	108468	Strand	
Start	7105	End	8754
Name	OJ991121_44.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	7105	End	8754
GI	none	Score	210
Exons	7105..7239, 7106..7249, 7138..7257, 7143..7289, 7322..7366, 7324..7359, 7412..7510, 7424..7513, 7435..7512, 8052..8165, 8054..8167, 8073..8168, 8636..8749, 8640..8750, 8640..8753, 8644..8754		

Seq. No.	51187	Seq. ID	OJ991121_44.0419.C30
Gene No.	108469	Strand	+
Start	1	End	1603
Name	OJ991121_44.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	920
GI	7449342	Score	213
Exons	1..125, 290..456, 581..708, 831..920		
GI Descrip.	RNA methyltransferase homolog yfjO - Bacillus subtilis gi 2633126 emb CAB12631.1 (Z99108) similar to RNA methyltransferase [Bacillus subtilis] gi 2780399 dbj BAA24300.1 (D78509) YfjO [Bacillus subtilis]		

Seq. No.	51187	Seq. ID	OJ991121_44.0419.C30
Gene No.	108469	Strand	+
Start	1	End	1603
Name	OJ991121_44.0419.C30.o1.gs	Method	GENSCAN
Start	258	End	1575
GI	none	Score	.7
Exons	258..456, 563..706, 807..986, 1451..1575		

Seq. No.	51187	Seq. ID	OJ991121_44.0419.C30
Gene No.	108469	Strand	+
Start	1	End	1603
Name	OJ991121_44.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	300	End	936
GI	none	Score	250
Exons	300..455, 300..449, 301..459, 302..457, 304..465, 567..713, 577..711, 579..713, 580..753, 783..926, 807..935, 808..936		

Seq. No.	51187	Seq. ID	OJ991121_44.0419.C30
Gene No.	108469	Strand	+
Start	1	End	1603
Name	OJ991121_44.0419.C30.o1.gp	Method	AAT/GAP
Start	608	End	1603
GI	LIB3474-002-P1-K1-H9	Score	826
Exons	608..711, 807..990, 1451..1603		
GI Descrip.	'2632987/emb CAB12493 5.0e-10 (Z99107) alternate gene name: yerS; similar to RNA methyltransferase [Bacillus subtilis]'		

Seq. No.	51188	Seq. ID	OJ991121_44.0419.C31
Gene No.	108470	Strand	+
Start	1	End	1351
Name	OJ991121_44.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	1351
GI	7269841	Score	390
Exons	1..30, 487..1351		
GI Descrip.	(AL161575) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51188	Seq. ID	OJ991121_44.0419.C31
Gene No.	108471	Strand	-
Start	786	End	3117
Name	OJ991121_44.0419.C31.o1.gp	Method	AAT/GAP
Start	786	End	2056
GI	2564_1.R1084	Score	2352
Exons	786..1972, 2009..2056		
GI Descrip.	'3288564/emb CAA65776 8.0e-43 (X97066) 1-aminocyclopropane-1-carboxylic acid synthase [Oryza sativa]'		

Seq. No.	51188	Seq. ID	OJ991121_44.0419.C31
Gene No.	108471	Strand	-
Start	786	End	3117
Name	OJ991121_44.0419.C31.o2.gs	Method	GENSCAN
Start	1895	End	3117
GI	none	Score	.86
Exons	1895..2200, 2260..3117		

Seq. No.	51188	Seq. ID	OJ991121_44.0419.C31
Gene No.	108472	Strand	-
Start	4267	End	4486

Name	OJ991121_44.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	482	End	845
GI	none	Score	384
Exons	482..829, 483..845		
Seq. No.	51188	Seq. ID	OJ991121_44.0419.C31
Gene No.	108472	Strand	-
Start	4267	End	4486
Name	OJ991121_44.0419.C31.o3.gs	Method	GENSCAN
Start	4267	End	4486
GI	none	Score	.55
Exons	4267..4486		
Seq. No.	51189	Seq. ID	OJ991121_44.0419.C32
Gene No.	108473	Strand	+
Start	636	End	1876
Name	OJ991121_44.0419.C32.o1.gs	Method	GENSCAN
Start	636	End	1876
GI	none	Score	.72
Exons	636..708, 1625..1876		
Seq. No.	51190	Seq. ID	OJ991121_44.0419.C33
Gene No.	108474	Strand	-
Start	27	End	1738
Name	OJ991121_44.0419.C33.o1.gs	Method	GENSCAN
Start	27	End	1738
GI	none	Score	.43
Exons	27..162, 1415..1523, 1582..1738		
Seq. No.	51191	Seq. ID	OJ991121_44.0419.C34
Gene No.	108475	Strand	+
Start	2584	End	4132
Name	OJ991121_44.0419.C34.o1.np	Method	AAT/NAP
Start	2584	End	3629
GI	2062176	Score	340
Exons	2584..2646, 2677..2950, 3422..3629		
GI Descrip.	(AC001645) Myb-related transcription activator (MybSt1) isolog [Arabidopsis thaliana]		
Seq. No.	51191	Seq. ID	OJ991121_44.0419.C34
Gene No.	108475	Strand	+
Start	2584	End	4132
Name	OJ991121_44.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	2584	End	3635
GI	none	Score	83
Exons	2584..2637, 3418..3543, 3435..3635, 3435..3632		
Seq. No.	51191	Seq. ID	OJ991121_44.0419.C34
Gene No.	108475	Strand	+
Start	2584	End	4132
Name	OJ991121_44.0419.C34.o1.gs	Method	GENSCAN
Start	2595	End	4132
GI	none	Score	.79
Exons	2595..2950, 3454..3571, 3764..4132		
Seq. No.	51191	Seq. ID	OJ991121_44.0419.C34
Gene No.	108475	Strand	+

Start	2584	End	4132
Name	OJ991121_44.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	2895	End	3635
GI	none	Score	84
Exons	2895..2966, 2896..2952, 3434..3577, 3435..3635		

Seq. No.	51191	Seq. ID	OJ991121_44.0419.C34
Gene No.	108475	Strand	+
Start	2584	End	4132
Name	OJ991121_44.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	3434	End	3632
GI	none	Score	277
Exons	3434..3577, 3435..3632, 3435..3632		

Seq. No.	51191	Seq. ID	OJ991121_44.0419.C34
Gene No.	108475	Strand	+
Start	2584	End	4132
Name	OJ991121_44.0419.C34.o1.tw	Method	TBLASTX:Wheat
Start	3434	End	3635
GI	none	Score	273
Exons	3434..3577, 3435..3635, 3444..3632		

Seq. No.	51192	Seq. ID	OJ991121_44.0419.C35
Gene No.	108476	Strand	+
Start	358	End	1892
Name	OJ991121_44.0419.C35.o1.gs	Method	GENSCAN
Start	358	End	1892
GI	none	Score	.55
Exons	358..404, 1763..1892		

Seq. No.	51192	Seq. ID	OJ991121_44.0419.C35
Gene No.	108477	Strand	+
Start	2338	End	2402
Name	OJ991121_44.0419.C35.o1.gp	Method	AAT/GAP
Start	2338	End	2402
GI	1255_1.R1084	Score	74
Exons	2338..2402		
GI Descrip.	'5803242/dbj AP000399.1 AP000399 1.0e-127 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	51192	Seq. ID	OJ991121_44.0419.C35
Gene No.	108478	Strand	-
Start	2342	End	2462
Name	OJ991121_44.0419.C35.o2.gs	Method	GENSCAN
Start	2342	End	2462
GI	none	Score	.74
Exons	2342..2462		

Seq. No.	51193	Seq. ID	OJ991121_44.0419.C36
Gene No.	108479	Strand	+
Start	546	End	858
Name	OJ991121_44.0419.C36.o1.gs	Method	GENSCAN
Start	546	End	858
GI	none	Score	.93
Exons	546..638, 704..858		

Seq. No.	51194	Seq. ID	OJ991121_44.0419.C37
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Gene No. 108480
 Start 131
 Name OJ991121_44.0419.C37.o1.gs
 Start 131
 GI none
 Exons 131..201

Strand +
 End 201
 Method GENSCAN
 End 201
 Score .88

Seq. No. 51194
 Gene No. 108481
 Start 2363
 Name OJ991121_44.0419.C37.o2.gs
 Start 2363
 GI none
 Exons 2363..2473, 2555..2743, 2773..2994, 3227..3454

Seq. ID OJ991121_44.0419.C37
 Strand -
 End 3454
 Method GENSCAN
 End 3454
 Score .87

Seq. No. 51195
 Gene No. 108482
 Start 463
 Name OJ991121_44.0419.C38.o1.gs
 Start 463
 GI none
 Exons 463..638, 781..880

Seq. ID OJ991121_44.0419.C38
 Strand +
 End 880
 Method GENSCAN
 End 880
 Score .59

Seq. No. 51195
 Gene No. 108483
 Start 1892
 Name OJ991121_44.0419.C38.o2.gs
 Start 1892
 GI none
 Exons 1892..1979, 2148..2224

Seq. ID OJ991121_44.0419.C38
 Strand +
 End 2224
 Method GENSCAN
 End 2224
 Score .52

Seq. No. 51196
 Gene No. 108484
 Start 31
 Name OJ991121_44.0419.C39.o1.gs
 Start 31
 GI none
 Exons 31..328, 1276..1592

Seq. ID OJ991121_44.0419.C39
 Strand +
 End 1592
 Method GENSCAN
 End 1592
 Score .71

Seq. No. 51197
 Gene No. 108485
 Start 1
 Name OJ991121_44.0419.C40.o1.np
 Start 1
 GI 3643609
 Exons 1..69, 733..1210, 1283..1427, 1549..1718
 GI Descrip. (AC005395) putative CCCH-type

Seq. ID OJ991121_44.0419.C40
 Strand +
 End 1790
 Method AAT/NAP
 End 1718
 Score 640
 zinc finger protein [Arabidopsis thaliana]

Seq. No. 51197
 Gene No. 108485
 Start 1
 Name OJ991121_44.0419.C40.o1.gp
 Start 528
 GI 3061151
 Exons 528..852

Seq. ID OJ991121_44.0419.C40
 Strand +
 End 1790
 Method AAT/GAP
 End 852
 Score 576

Seq. No. 51197
 Gene No. 108485
 Start 1
 Name OJ991121_44.0419.C40.o1.gs
 Start 634
 GI none
 Exons 634..1451, 1538..1790

Seq. ID OJ991121_44.0419.C40
 Strand +
 End 1790
 Method GENSCAN
 End 1790
 Score .56

Seq. No. 51197
 Gene No. 108486
 Start 1963
 Name OJ991121_44.0419.C40.o2.gp
 Start 1963
 GI uC-osflcyp177b01b1
 Exons 1963..2349
 GI Descrip. '4191791 3.0e-29 (AC005917) putative sf21 {Helianthus annuus} protein [Arabidopsis thaliana]'

Seq. ID OJ991121_44.0419.C40
 Strand +
 End 2349
 Method AAT/GAP
 End 2349
 Score 589

Seq. No. 51197
 Gene No. 108487
 Start 2217
 Name OJ991121_44.0419.C40.o1.tm
 Start 567
 GI none
 Exons 567..689, 616..699, 727..789, 727..783, 858..1193, 859..1209, 1156..1197, 1195..1266, 1200..1265, 1225..1266, 1280..1366, 1281..1367, 1356..1451, 1362..1400, 1362..1430, 1399..1443, 1503..1535, 1563..1589, 1565..1594, 1575..1646, 1623..1739, 1623..1700, 1652..1741, 1724..1792, 1746..1793

Seq. ID OJ991121_44.0419.C40
 Strand -
 End 2525
 Method TBLASTX:Maize
 End 1793
 Score 67

Seq. No. 51197
 Gene No. 108487
 Start 2217
 Name OJ991121_44.0419.C40.o1.tc
 Start 858
 GI none
 Exons 858..1172, 859..1173

Seq. ID OJ991121_44.0419.C40
 Strand -
 End 2525
 Method TBLASTX:Cress
 End 1173
 Score 569

Seq. No. 51197
 Gene No. 108487
 Start 2217
 Name OJ991121_44.0419.C40.o1.ts
 Start 859
 GI none
 Exons 859..1179, 861..1178, 1216..1248, 1632..1790, 1647..1790

Seq. ID OJ991121_44.0419.C40
 Strand -
 End 2525
 Method TBLASTX:Soybean
 End 1790
 Score 584

Seq. No. 51197
 Gene No. 108487
 Start 2217
 Name OJ991121_44.0419.C40.o1.tw
 Start 859
 GI none
 Exons 859..1011, 859..930, 861..1007, 1017..1163, 1018..1209, 1183..1215

Seq. ID OJ991121_44.0419.C40
 Strand -
 End 2525
 Method TBLASTX:Wheat
 End 1215
 Score 215

Seq. No. 51197
 Gene No. 108487

Seq. ID OJ991121_44.0419.C40
 Strand -

Start	2217	End	2525
Name	OJ991121_44.0419.C40.o3.gp	Method	AAT/GAP
Start	2217	End	2525
GI	none	Score	526
Exons	2217..2525		

Seq. No.	51198	Seq. ID	OJ991121_44.0419.C41
Gene No.	108488	Strand	+
Start	1890	End	7503
Name	OJ991121_44.0419.C41.o1.gs	Method	GENSCAN
Start	1890	End	7489
GI	none	Score	.82
Exons	1890..1993, 2068..2147, 2771..2908, 6717..6887, 7038..7142, 7316..7489		

Seq. No.	51198	Seq. ID	OJ991121_44.0419.C41
Gene No.	108488	Strand	+
Start	1890	End	7503
Name	OJ991121_44.0419.C41.o1.np	Method	AAT/NAP
Start	6758	End	7503
GI	5902448	Score	1308
Exons	6758..7503		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	51198	Seq. ID	OJ991121_44.0419.C41
Gene No.	108488	Strand	+
Start	1890	End	7503
Name	OJ991121_44.0419.C41.o1.tw	Method	TBLASTX:Wheat
Start	6878	End	7168
GI	none	Score	221
Exons	6878..7168		

Seq. No.	51199	Seq. ID	OJ991121_44.0419.C42
Gene No.	108489	Strand	+
Start	1	End	1211
Name	OJ991121_44.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	583
GI	5902447	Score	963
Exons	1..583		
GI Descrip.	(AB030283) orf4 [Oryza sativa]		

Seq. No.	51199	Seq. ID	OJ991121_44.0419.C42
Gene No.	108489	Strand	+
Start	1	End	1211
Name	OJ991121_44.0419.C42.o1.gs	Method	GENSCAN
Start	196	End	1211
GI	none	Score	.5
Exons	196..482, 629..829, 968..1081, 1153..1211		

Seq. No.	51200	Seq. ID	OJ991121_40.0419.C1
Gene No.	108490	Strand	+
Start	464	End	3678
Name	OJ991121_40.0419.C1.o1.gs	Method	GENSCAN
Start	464	End	3678
GI	none	Score	.67
Exons	464..570, 973..1106, 1938..2013, 2837..2940, 3160..3536, 3562..3678		

Seq. No.	51200	Seq. ID	OJ991121_40.0419.C1
Gene No.	108490	Strand	+
Start	464	End	3678
Name	OJ991121_40.0419.C1.o1.gp	Method	AAT/GAP
Start	1429	End	1731
GI	61605_3.R1084	Score	434
Exons	1429..1731		
GI Descrip.	'1402920/emb CAA66965 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	51200	Seq. ID	OJ991121_40.0419.C1
Gene No.	108491	Strand	-
Start	2100	End	6023
Name	OJ991121_40.0419.C1.o1.np	Method	AAT/NAP
Start	2100	End	6023
GI	6063554	Score	434
Exons	2100..2274, 2906..2933, 3251..3473, 3591..3874, 5948..6023		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51200	Seq. ID	OJ991121_40.0419.C1
Gene No.	108491	Strand	-
Start	2100	End	6023
Name	OJ991121_40.0419.C1.o3.gp	Method	AAT/GAP
Start	2260	End	2687
GI	2428185	Score	825
Exons	2260..2687		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	51200	Seq. ID	OJ991121_40.0419.C1
Gene No.	108491	Strand	-
Start	2100	End	6023
Name	OJ991121_40.0419.C1.o4.gp	Method	AAT/GAP
Start	2703	End	3826
GI	101153_1.R1084	Score	1026
Exons	2703..2933, 3251..3595, 3801..3826		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica (GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51200	Seq. ID	OJ991121_40.0419.C1
Gene No.	108491	Strand	-
Start	2100	End	6023
Name	OJ991121_40.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	4397	End	4789
GI	none	Score	82
Exons	4397..4486, 4476..4649, 4508..4627, 4700..4789, 4701..4787		

Seq. No.	51200	Seq. ID	OJ991121_40.0419.C1
Gene No.	108491	Strand	-
Start	2100	End	6023
Name	OJ991121_40.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	4469	End	4757
GI	none	Score	248
Exons	4469..4594, 4482..4757, 4676..4750		

Seq. No.	51201	Seq. ID	OJ991121_40.0419.C2
Gene No.	108492	Strand	+
Start	1	End	740
Name	OJ991121_40.0419.C2.o2.np	Method	AAT/NAP
Start	1	End	740
GI	7106528	Score	94
Exons	1..187, 598..740		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51201	Seq. ID	OJ991121_40.0419.C2
Gene No.	108493	Strand	-
Start	63	End	2949
Name	OJ991121_40.0419.C2.o1.np	Method	AAT/NAP
Start	63	End	2562
GI	7406712	Score	461
Exons	63..575, 2503..2562		
GI Descrip.	(AJ237995) putative ripening-related P-450 enzyme [Vitis vinifera]		

Seq. No.	51201	Seq. ID	OJ991121_40.0419.C2
Gene No.	108493	Strand	-
Start	63	End	2949
Name	OJ991121_40.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	64	End	570
GI	none	Score	216
Exons	64..570, 66..569		

Seq. No.	51201	Seq. ID	OJ991121_40.0419.C2
Gene No.	108493	Strand	-
Start	63	End	2949
Name	OJ991121_40.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	66	End	566
GI	none	Score	237
Exons	66..143, 135..566, 205..555		

Seq. No.	51201	Seq. ID	OJ991121_40.0419.C2
Gene No.	108493	Strand	-
Start	63	End	2949
Name	OJ991121_40.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	102	End	405
GI	none	Score	67
Exons	102..134, 138..293, 232..291, 297..386, 300..404, 301..405		

Seq. No.	51201	Seq. ID	OJ991121_40.0419.C2
Gene No.	108493	Strand	-
Start	63	End	2949
Name	OJ991121_40.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	136	End	590
GI	none	Score	165
Exons	136..291, 136..282, 137..292, 138..293, 295..570, 306..590		

Seq. No.	51201	Seq. ID	OJ991121_40.0419.C2
Gene No.	108493	Strand	-
Start	63	End	2949
Name	OJ991121_40.0419.C2.o1.gp	Method	AAT/GAP

Start	572	End	717
GI	21474_1.R1084	Score	255
Exons	572..717		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	51201	Seq. ID	OJ991121_40.0419.C2
Gene No.	108493	Strand	-
Start	63	End	2949
Name	OJ991121_40.0419.C2.o1.gs	Method	GENSCAN
Start	1016	End	2949
GI	none	Score	.94
Exons	1016..1201, 1281..1379, 1474..1546, 1631..1741, 2121..2949		

Seq. No.	51202	Seq. ID	OJ991121_40.0419.C3
Gene No.	108494	Strand	-
Start	1	End	1230
Name	OJ991121_40.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1230
GI	4680204	Score	742
Exons	1..1230		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	51202	Seq. ID	OJ991121_40.0419.C3
Gene No.	108494	Strand	-
Start	1	End	1230
Name	OJ991121_40.0419.C3.o1.gs	Method	GENSCAN
Start	35	End	1215
GI	none	Score	.65
Exons	35..869, 881..1215		

Seq. No.	51202	Seq. ID	OJ991121_40.0419.C3
Gene No.	108494	Strand	-
Start	1	End	1230
Name	OJ991121_40.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	185	End	588
GI	none	Score	84
Exons	185..355, 318..485, 350..586, 437..586, 448..588, 478..588		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108495	Strand	+
Start	34	End	4126
Name	OJ991121_40.0419.C4.o1.gp	Method	AAT/GAP
Start	34	End	4126
GI	342_1.R1084	Score	6239
Exons	34..390, 488..4126		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108495	Strand	+
Start	34	End	4126
Name	OJ991121_40.0419.C4.o2.gp	Method	AAT/GAP
Start	36	End	4126
GI	342_1.R1084	Score	6235
Exons	36..390, 488..4126		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza		

sativa]'

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-
Start	799	End	4130
Name	OJ991121_40.0419.C4.o1.gs	Method	GENSCAN
Start	799	End	4130
GI	none	Score	.62
Exons	799..2019, 2212..2609, 2632..3142, 3317..3631, 3726..4130		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-
Start	799	End	4130
Name	OJ991121_40.0419.C4.o1.np	Method	AAT/NAP
Start	820	End	4129
GI	4680203	Score	3208
Exons	820..1794, 2071..2301, 2455..4129		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-
Start	799	End	4130
Name	OJ991121_40.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	889	End	2188
GI	none	Score	47
Exons	889..966, 905..940, 955..1035, 971..1024, 1040..1120, 1042..1158, 1042..1161, 1064..1162, 1165..1224, 1166..1228, 1230..1295, 1231..1275, 1235..1276, 1270..2187, 1286..2188, 1463..2188		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-
Start	799	End	4130
Name	OJ991121_40.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	1453	End	1900
GI	none	Score	101
Exons	1453..1602, 1453..1896, 1457..1900, 1463..1900		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-
Start	799	End	4130
Name	OJ991121_40.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	1796	End	2274
GI	none	Score	74
Exons	1796..2005, 1798..2274, 2059..2136		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-
Start	799	End	4130
Name	OJ991121_40.0419.C4.o3.tw	Method	TBLASTX:Wheat
Start	2189	End	2595
GI	none	Score	75
Exons	2189..2275, 2194..2274, 2308..2526, 2348..2530, 2536..2595, 2549..2593		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-

Start	799	End	4130
Name	OJ991121_40.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	2633	End	2875
GI	none	Score	216
Exons	2633..2875		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-
Start	799	End	4130
Name	OJ991121_40.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	2705	End	3163
GI	none	Score	101
Exons	2705..2899, 2909..3163, 2909..3151		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-
Start	799	End	4130
Name	OJ991121_40.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	2739	End	3209
GI	none	Score	173
Exons	2739..2945, 2739..2948, 2744..2947, 2744..2968, 2948..3046, 2949..3041, 3050..3151, 3054..3143, 3150..3209, 3155..3208		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-
Start	799	End	4130
Name	OJ991121_40.0419.C4.o2.tc	Method	TBLASTX:Cress
Start	2996	End	3344
GI	none	Score	92
Exons	2996..3337, 3015..3152, 3192..3344		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-
Start	799	End	4130
Name	OJ991121_40.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	3077	End	3506
GI	none	Score	108
Exons	3077..3373, 3095..3319, 3423..3506, 3431..3505		

Seq. No.	51203	Seq. ID	OJ991121_40.0419.C4
Gene No.	108496	Strand	-
Start	799	End	4130
Name	OJ991121_40.0419.C4.o4.tw	Method	TBLASTX:Wheat
Start	3427	End	3824
GI	none	Score	122
Exons	3427..3612, 3437..3616, 3438..3608, 3609..3689, 3612..3680, 3686..3793, 3687..3824		

Seq. No.	51204	Seq. ID	OJ991121_40.0419.C5
Gene No.	108497	Strand	-
Start	155	End	279
Name	OJ991121_40.0419.C5.o1.gs	Method	GENSCAN
Start	155	End	279
GI	none	Score	.51
Exons	155..238, 274..279		

Seq. No.	51205	Seq. ID	OJ991121_40.0419.C6
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Gene No. 108498
 Start 638
 Name OJ991121_40.0419.C6.o1.gs
 Start 638
 GI none
 Exons 638..756, 1482..1588

Strand +
 End 1588
 Method GENSCAN
 End 1588
 Score .64

Seq. No. 51206
 Gene No. 108499
 Start 1569
 Name OJ991121_40.0419.C7.o1.gs
 Start 1569
 GI none
 Exons 1569..1689, 2046..2150, 2241..3041

Seq. ID OJ991121_40.0419.C7
 Strand +
 End 3165
 Method GENSCAN
 End 3041
 Score .78

Seq. No. 51206
 Gene No. 108499
 Start 1569
 Name OJ991121_40.0419.C7.o1.np
 Start 1787
 GI 5734621
 Exons 1787..1949, 2760..2829, 3069..3165
 GI Descrip. (AP000391) ESTs AU067992(C11433), AU077424(C11433) correspond to

Seq. ID OJ991121_40.0419.C7
 Strand +
 End 3165
 Method AAT/NAP
 End 3165
 Score 111
 a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]

Seq. No. 51207
 Gene No. 108500
 Start 1
 Name OJ991121_40.0419.C8.o1.np
 Start 1
 GI 6691191
 Exons 1..1210, 1928..1980
 GI Descrip. (AC007534) F7F22.15 [Arabidopsis thaliana]

Seq. ID OJ991121_40.0419.C8
 Strand +
 End 1980
 Method AAT/NAP
 End 1980
 Score 934

Seq. No. 51207
 Gene No. 108500
 Start 1
 Name OJ991121_40.0419.C8.o1.gs
 Start 163
 GI none
 Exons 163..511, 1281..1387

Seq. ID OJ991121_40.0419.C8
 Strand +
 End 1980
 Method GENSCAN
 End 1387
 Score .81

Seq. No. 51207
 Gene No. 108501
 Start 1751
 Name OJ991121_40.0419.C8.o1.tw
 Start 4
 GI none
 Exons 4..381, 6..197, 10..381

Seq. ID OJ991121_40.0419.C8
 Strand -
 End 1972
 Method TBLASTX:Wheat
 End 381
 Score 443

Seq. No. 51207
 Gene No. 108501
 Start 1751
 Name OJ991121_40.0419.C8.o1.tm
 Start 139
 GI none

Seq. ID OJ991121_40.0419.C8
 Strand -
 End 1972
 Method TBLASTX:Maize
 End 528
 Score 257

Exons 139..528, 279..527

Seq. No.	51207	Seq. ID	OJ991121_40.0419.C8
Gene No.	108501	Strand	-
Start	1751	End	1972
Name	OJ991121_40.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	241	End	588
GI	none	Score	73
Exons	241..306, 306..575, 307..576, 307..588		

Seq. No.	51207	Seq. ID	OJ991121_40.0419.C8
Gene No.	108501	Strand	-
Start	1751	End	1972
Name	OJ991121_40.0419.C8.o3.tw	Method	TBLASTX:Wheat
Start	385	End	622
GI	none	Score	227
Exons	385..597, 390..572, 578..622		

Seq. No.	51207	Seq. ID	OJ991121_40.0419.C8
Gene No.	108501	Strand	-
Start	1751	End	1972
Name	OJ991121_40.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	664	End	1133
GI	none	Score	114
Exons	664..759, 666..749, 746..796, 750..866, 861..923, 930..1133, 974..1132		

Seq. No.	51207	Seq. ID	OJ991121_40.0419.C8
Gene No.	108501	Strand	-
Start	1751	End	1972
Name	OJ991121_40.0419.C8.o2.gs	Method	GENSCAN
Start	1751	End	1972
GI	none	Score	.93
Exons	1751..1972		

Seq. No.	51208	Seq. ID	OJ991121_40.0419.C9
Gene No.	108502	Strand	+
Start	256	End	342
Name	OJ991121_40.0419.C9.o1.gs	Method	GENSCAN
Start	256	End	342
GI	none	Score	.93
Exons	256..342		

Seq. No.	51209	Seq. ID	OJ991121_40.0419.C10
Gene No.	108503	Strand	+
Start	143	End	449
Name	OJ991121_40.0419.C10.o1.gp	Method	AAT/GAP
Start	143	End	449
GI	3760783	Score	585
Exons	143..449		

Seq. No.	51209	Seq. ID	OJ991121_40.0419.C10
Gene No.	108504	Strand	-
Start	2135	End	2235
Name	OJ991121_40.0419.C10.o2.gp	Method	AAT/GAP
Start	2135	End	2235
GI	L1B3477-003-P1-K1-E9	Score	111

Exons 2135..2235
 GI Descrip. '2498586/sp|Q40638|MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	51210	Seq. ID	OJ991121_40.0419.C12
Gene No.	108505	Strand	-
Start	74	End	1046
Name	OJ991121_40.0419.C12.o1.gs	Method	GENSCAN
Start	74	End	1046
GI	none	Score	.69
Exons	74..704, 1036..1046		

Seq. No.	51211	Seq. ID	OJ991121_40.0419.C15
Gene No.	108506	Strand	+
Start	361	End	2030
Name	OJ991121_40.0419.C15.o1.np	Method	AAT/NAP
Start	361	End	1488
GI	7340881	Score	126
Exons	361..929, 1202..1335, 1441..1488		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51211	Seq. ID	OJ991121_40.0419.C15
Gene No.	108506	Strand	+
Start	361	End	2030
Name	OJ991121_40.0419.C15.o1.gs	Method	GENSCAN
Start	791	End	2030
GI	none	Score	.53
Exons	791..904, 1650..2030		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108507	Strand	+
Start	2196	End	2659
Name	OJ991121_40.0419.C16.o1.np	Method	AAT/NAP
Start	2196	End	2659
GI	5852181	Score	119
Exons	2196..2339, 2407..2659		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108508	Strand	-
Start	1513	End	4059
Name	OJ991121_40.0419.C16.o1.gs	Method	GENSCAN
Start	1513	End	4059
GI	none	Score	.73
Exons	1513..1616, 2611..2659, 3166..4059		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108508	Strand	-
Start	1513	End	4059
Name	OJ991121_40.0419.C16.o3.np	Method	AAT/NAP
Start	1567	End	4056
GI	7406712	Score	488
Exons	1567..1587, 3229..4056		
GI Descrip.	(AJ237995) putative ripening-related P-450 enzyme [Vitis vinifera]		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108508	Strand	-
Start	1513	End	4059
Name	OJ991121_40.0419.C16.o2.np	Method	AAT/NAP
Start	2322	End	2864
GI	7340909	Score	125
Exons	2322..2555, 2611..2864		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108509	Strand	-
Start	6145	End	6799
Name	OJ991121_40.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	3164	End	3528
GI	none	Score	42
Exons	3164..3205, 3165..3209, 3165..3215, 3166..3216, 3216..3359, 3217..3405, 3229..3468, 3323..3454, 3458..3523, 3466..3528		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108509	Strand	-
Start	6145	End	6799
Name	OJ991121_40.0419.C16.o2.tc	Method	TBLASTX:Cress
Start	3271	End	4053
GI	none	Score	98
Exons	3271..3528, 3601..3711, 3751..3927, 3767..3940, 4030..4053		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108509	Strand	-
Start	6145	End	6799
Name	OJ991121_40.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	3595	End	3963
GI	none	Score	34
Exons	3595..3618, 3595..3744, 3692..3745, 3754..3921, 3755..3940, 3808..3963		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108509	Strand	-
Start	6145	End	6799
Name	OJ991121_40.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	3679	End	3954
GI	none	Score	41
Exons	3679..3705, 3683..3706, 3754..3921, 3755..3937, 3793..3954		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108509	Strand	-
Start	6145	End	6799
Name	OJ991121_40.0419.C16.o3.tm	Method	TBLASTX:Maize
Start	3728	End	4059
GI	none	Score	233
Exons	3728..3940, 3730..3927, 3790..3966, 4027..4059		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108509	Strand	-
Start	6145	End	6799
Name	OJ991121_40.0419.C16.o2.gs	Method	GENSCAN
Start	6145	End	6799
GI	none	Score	.5

Exons 6145..6560, 6619..6799

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108509	Strand	-
Start	6145	End	6799
Name	OJ991121_40.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	6204	End	6531
GI	none	Score	111
Exons	6204..6308, 6310..6489, 6311..6490, 6492..6530, 6493..6531		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108509	Strand	-
Start	6145	End	6799
Name	OJ991121_40.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	6204	End	6531
GI	none	Score	58
Exons	6204..6308, 6205..6309, 6305..6490, 6310..6489, 6317..6508, 6492..6530, 6493..6531		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108509	Strand	-
Start	6145	End	6799
Name	OJ991121_40.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	6204	End	6531
GI	none	Score	146
Exons	6204..6308, 6310..6489, 6311..6490, 6492..6530, 6493..6531		

Seq. No.	51212	Seq. ID	OJ991121_40.0419.C16
Gene No.	108509	Strand	-
Start	6145	End	6799
Name	OJ991121_40.0419.C16.o4.np	Method	AAT/NAP
Start	6205	End	6645
GI	2501578	Score	272
Exons	6205..6645		
GI Descrip.	ETHYLENE-INDUCIBLE PROTEIN HEVER gi 2129913 pir S60047 ethylene-responsive protein 1 - Para rubber tree gi 1209317 (M88254) ethylene-inducible protein [Hevea brasiliensis]		

Seq. No.	51213	Seq. ID	OJ991121_40.0419.C18
Gene No.	108510	Strand	+
Start	60	End	238
Name	OJ991121_40.0419.C18.o1.gs	Method	GENSCAN
Start	60	End	238
GI	none	Score	.52
Exons	60..238		

Seq. No.	51214	Seq. ID	OJ991121_40.0419.C20
Gene No.	108511	Strand	+
Start	1	End	298
Name	OJ991121_40.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	298
GI	6630699	Score	71
Exons	1..21, 212..298		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	51214	Seq. ID	OJ991121_40.0419.C20
Gene No.	108512	Strand	-
Start	461	End	6640
Name	OJ991121_40.0419.C20.o1.gs	Method	GENSCAN
Start	461	End	6625
GI	none	Score	.5
Exons	461..566, 1728..1760, 1955..2040, 3218..3352, 3452..3550, 3647..3719, 3821..3931, 4021..4194, 4283..4464, 4534..4930, 5182..5396, 5471..5593, 6161..6625		

Seq. No.	51214	Seq. ID	OJ991121_40.0419.C20
Gene No.	108512	Strand	-
Start	461	End	6640
Name	OJ991121_40.0419.C20.o2.np	Method	AAT/NAP
Start	949	End	6640
GI	4680204	Score	780
Exons	949..994, 3234..3352, 3647..3719, 3821..3931, 4021..4194, 4283..6640		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	51214	Seq. ID	OJ991121_40.0419.C20
Gene No.	108512	Strand	-
Start	461	End	6640
Name	OJ991121_40.0419.C20.o2.tw	Method	TBLASTX:Wheat
Start	3853	End	4214
GI	none	Score	49
Exons	3853..3933, 3860..3934, 4008..4214, 4011..4205		

Seq. No.	51214	Seq. ID	OJ991121_40.0419.C20
Gene No.	108512	Strand	-
Start	461	End	6640
Name	OJ991121_40.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	5621	End	6021
GI	none	Score	53
Exons	5621..5698, 5622..5702, 5780..5920, 5785..6021, 5827..6021		

Seq. No.	51215	Seq. ID	OJ991121_40.0419.C21
Gene No.	108513	Strand	+
Start	264	End	1555
Name	OJ991121_40.0419.C21.o1.gs	Method	GENSCAN
Start	264	End	1555
GI	none	Score	.42
Exons	264..345, 1355..1555		

Seq. No.	51215	Seq. ID	OJ991121_40.0419.C21
Gene No.	108514	Strand	-
Start	76	End	1621
Name	OJ991121_40.0419.C21.o1.np	Method	AAT/NAP
Start	76	End	1621
GI	6063554	Score	273
Exons	76..249, 885..938, 1524..1621		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51215	Seq. ID	OJ991121_40.0419.C21
Gene No.	108514	Strand	-

Start	76	End	1621
Name	OJ991121_40.0419.C21.o1.gp	Method	AAT/GAP
Start	236	End	667
GI	2428185	Score	765
Exons	236..667		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	51215	Seq. ID	OJ991121_40.0419.C21
Gene No.	108514	Strand	-
Start	76	End	1621
Name	OJ991121_40.0419.C21.o2.gp	Method	AAT/GAP
Start	683	End	933
GI	101153 1.R1084	Score	396
Exons	683..933		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51216	Seq. ID	OJ991121_40.0419.C22
Gene No.	108515	Strand	-
Start	1	End	1236
Name	OJ991121_40.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1153
GI	4680203	Score	1004
Exons	1..1153		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51216	Seq. ID	OJ991121_40.0419.C22
Gene No.	108515	Strand	-
Start	1	End	1236
Name	OJ991121_40.0419.C22.o1.gs	Method	GENSCAN
Start	115	End	1236
GI	none	Score	.62
Exons	115..372, 478..1236		

Seq. No.	51216	Seq. ID	OJ991121_40.0419.C22
Gene No.	108515	Strand	-
Start	1	End	1236
Name	OJ991121_40.0419.C22.o2.tw	Method	TBLASTX:Wheat
Start	127	End	507
GI	none	Score	50
Exons	127..249, 131..250, 256..321, 280..396, 295..396, 397..507, 404..505		

Seq. No.	51216	Seq. ID	OJ991121_40.0419.C22
Gene No.	108515	Strand	-
Start	1	End	1236
Name	OJ991121_40.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	298	End	699
GI	none	Score	75
Exons	298..498, 343..498, 380..526, 508..582, 598..699		

Seq. No.	51216	Seq. ID	OJ991121_40.0419.C22
Gene No.	108515	Strand	-
Start	1	End	1236
Name	OJ991121_40.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	343	End	687

GI	none	Score	47
Exons	343..501, 386..460, 508..687, 542..658		

Seq. No.	51216	Seq. ID	OJ991121_40.0419.C22
Gene No.	108515	Strand	-
Start	1	End	1236
Name	OJ991121_40.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	421	End	687
GI	none	Score	66
Exons	421..501, 508..687, 509..661		

Seq. No.	51216	Seq. ID	OJ991121_40.0419.C22
Gene No.	108515	Strand	-
Start	1	End	1236
Name	OJ991121_40.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	508	End	1062
GI	none	Score	53
Exons	508..570, 568..687, 581..658, 718..1062, 737..1030		

Seq. No.	51216	Seq. ID	OJ991121_40.0419.C22
Gene No.	108515	Strand	-
Start	1	End	1236
Name	OJ991121_40.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	718	End	1029
GI	none	Score	146
Exons	718..993, 719..973, 1000..1029		

Seq. No.	51217	Seq. ID	OJ991121_40.0419.C23
Gene No.	108516	Strand	-
Start	602	End	636
Name	OJ991121_40.0419.C23.o1.gs	Method	GENSCAN
Start	602	End	636
GI	none	Score	.48
Exons	602..636		

Seq. No.	51217	Seq. ID	OJ991121_40.0419.C23
Gene No.	108517	Strand	-
Start	795	End	1470
Name	OJ991121_40.0419.C23.o1.np	Method	AAT/NAP
Start	795	End	1470
GI	6063554	Score	109
Exons	795..967, 1447..1470		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108518	Strand	+
Start	59	End	449
Name	OJ991121_40.0419.C24.o1.gs	Method	GENSCAN
Start	59	End	449
GI	none	Score	.74
Exons	59..128, 136..449		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178

Name	OJ991121_40.0419.C24.o1.np	Method	AAT/NAP
Start	886	End	5178
GI	4680179	Score	5578
Exons	886..4265, 4293..5178		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o2.gs	Method	GENSCAN
Start	945	End	5085
GI	none	Score	.49
Exons	945..1385, 1422..1676, 1902..3480, 3622..5085		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o7.tw	Method	TBLASTX:Wheat
Start	975	End	1263
GI	none	Score	74
Exons	975..1112, 978..1262, 982..1167, 1146..1259, 1192..1263		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	1125	End	1710
GI	none	Score	100
Exons	1125..1550, 1126..1323, 1146..1430, 1387..1551, 1546..1695, 1548..1709, 1555..1710		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	1263	End	1889
GI	none	Score	258
Exons	1263..1889, 1384..1830		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o3.tm	Method	TBLASTX:Maize
Start	1758	End	2050
GI	none	Score	68
Exons	1758..2048, 1761..1916, 1762..2049, 1949..2050		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o2.ts	Method	TBLASTX:Soybean
Start	1848	End	2108
GI	none	Score	98
Exons	1848..2066, 1848..2108, 1849..2097		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-

Start	945	End	5178
Name	OJ991121_40.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	1872	End	2198
GI	none	Score	87
Exons	1872..2015, 1873..2013, 2016..2198		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o2.tw	Method	TBLASTX:Wheat
Start	1896	End	2432
GI	none	Score	301
Exons	1896..2432, 1900..2253		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o2.tm	Method	TBLASTX:Maize
Start	2463	End	2816
GI	none	Score	190
Exons	2463..2816, 2470..2811		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o3.tw	Method	TBLASTX:Wheat
Start	2463	End	2888
GI	none	Score	254
Exons	2463..2813, 2463..2888, 2470..2886		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o3.ts	Method	TBLASTX:Soybean
Start	2634	End	2882
GI	none	Score	67
Exons	2634..2882, 2637..2810		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o5.tm	Method	TBLASTX:Maize
Start	2823	End	3155
GI	none	Score	150
Exons	2823..3155, 2824..3102		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o5.tw	Method	TBLASTX:Wheat
Start	2889	End	3152
GI	none	Score	249
Exons	2889..3152, 2890..3150		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178

Name	OJ991121_40.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	2904	End	3299
GI	none	Score	180
Exons	2904..3155, 2914..3147, 3210..3263, 3220..3261, 3267..3299, 3267..3299		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o4.tm	Method	TBLASTX:Maize
Start	3210	End	3657
GI	none	Score	70
Exons	3210..3653, 3415..3657		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o4.tw	Method	TBLASTX:Wheat
Start	3240	End	3723
GI	none	Score	211
Exons	3240..3722, 3243..3698, 3283..3723		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o4.ts	Method	TBLASTX:Soybean
Start	3372	End	3686
GI	none	Score	195
Exons	3372..3686		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o7.tm	Method	TBLASTX:Maize
Start	3660	End	3851
GI	none	Score	106
Exons	3660..3851, 3706..3813		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o8.tw	Method	TBLASTX:Wheat
Start	3855	End	4208
GI	none	Score	56
Exons	3855..4208, 3930..4208		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o6.tw	Method	TBLASTX:Wheat
Start	4542	End	4892
GI	none	Score	315
Exons	4542..4892		

Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178

Name	OJ991121_40.0419.C24.o6.tm	Method	TBLASTX:Maize
Start	4554	End	4892
GI	none	Score	65
Exons	4554..4892, 4647..4892		
Seq. No.	51218	Seq. ID	OJ991121_40.0419.C24
Gene No.	108519	Strand	-
Start	945	End	5178
Name	OJ991121_40.0419.C24.o9.tw	Method	TBLASTX:Wheat
Start	4944	End	5171
GI	none	Score	54
Exons	4944..5117, 4944..5171, 4945..5142		
Seq. No.	51219	Seq. ID	OJ991121_40.0419.C25
Gene No.	108520	Strand	-
Start	1	End	707
Name	OJ991121_40.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	707
GI	6983861	Score	1195
Exons	1..707		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		
Seq. No.	51219	Seq. ID	OJ991121_40.0419.C25
Gene No.	108520	Strand	-
Start	1	End	707
Name	OJ991121_40.0419.C25.o1.gs	Method	GENSCAN
Start	93	End	707
GI	none	Score	.5
Exons	93..707		
Seq. No.	51220	Seq. ID	OJ991121_40.0419.C30
Gene No.	108521	Strand	+
Start	745	End	1394
Name	OJ991121_40.0419.C30.o1.gs	Method	GENSCAN
Start	745	End	1394
GI	none	Score	.71
Exons	745..797, 886..945, 1324..1394		
Seq. No.	51220	Seq. ID	OJ991121_40.0419.C30
Gene No.	108522	Strand	+
Start	2305	End	2939
Name	OJ991121_40.0419.C30.o1.np	Method	AAT/NAP
Start	2302	End	2939
GI	6714352	Score	307
Exons	2302..2939		
GI Descrip.	(AC015986) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	51220	Seq. ID	OJ991121_40.0419.C30
Gene No.	108522	Strand	+
Start	2305	End	2939
Name	OJ991121_40.0419.C30.o2.gs	Method	GENSCAN
Start	2305	End	2910
GI	none	Score	.43
Exons	2305..2910		
Seq. No.	51220	Seq. ID	OJ991121_40.0419.C30

Gene No.	108522	Strand	+
Start	2305	End	2939
Name	OJ991121_40.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	2599	End	2931
GI	none	Score	66
Exons	2599..2652, 2688..2762, 2689..2760, 2775..2876, 2776..2931		

Seq. No.	51220	Seq. ID	OJ991121_40.0419.C30
Gene No.	108522	Strand	+
Start	2305	End	2939
Name	OJ991121_40.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	2602	End	2931
GI	none	Score	74
Exons	2602..2655, 2689..2766, 2776..2931		

Seq. No.	51221	Seq. ID	OJ991121_40.0419.C31
Gene No.	108523	Strand	+
Start	1	End	4261
Name	OJ991121_40.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	374
GI	4914330	Score	163
Exons	1..374		
GI Descrip.	(AC005489) F14N23.16 [Arabidopsis thaliana]		

Seq. No.	51221	Seq. ID	OJ991121_40.0419.C31
Gene No.	108523	Strand	+
Start	1	End	4261
Name	OJ991121_40.0419.C31.o2.np	Method	AAT/NAP
Start	30	End	4261
GI	4680341	Score	537
Exons	30..205, 2091..2208, 2235..2321, 2380..2737, 2992..3080, 4154..4261		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		

Seq. No.	51221	Seq. ID	OJ991121_40.0419.C31
Gene No.	108523	Strand	+
Start	1	End	4261
Name	OJ991121_40.0419.C31.o1.gs	Method	GENSCAN
Start	84	End	380
GI	none	Score	.54
Exons	84..380		

Seq. No.	51221	Seq. ID	OJ991121_40.0419.C31
Gene No.	108524	Strand	-
Start	2088	End	3305
Name	OJ991121_40.0419.C31.o2.gs	Method	GENSCAN
Start	2088	End	3305
GI	none	Score	.83
Exons	2088..2329, 2557..2669, 3259..3305		

Seq. No.	51221	Seq. ID	OJ991121_40.0419.C31
Gene No.	108525	Strand	-
Start	4114	End	4261
Name	OJ991121_40.0419.C31.o3.np	Method	AAT/NAP
Start	4114	End	4261
GI	7523512	Score	132
Exons	4114..4261		

GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No.	51222	Seq. ID	OJ991121_40.0419.C34
Gene No.	108526	Strand	+
Start	582	End	1274
Name	OJ991121_40.0419.C34.o1.gs	Method	GENSCAN
Start	582	End	1274
GI	none	Score	.68
Exons	582..652, 912..983, 1148..1274		

Seq. No.	51223	Seq. ID	OJ991121_40.0419.C35
Gene No.	108527	Strand	+
Start	637	End	908
Name	OJ991121_40.0419.C35.o1.gs	Method	GENSCAN
Start	637	End	908
GI	none	Score	.67
Exons	637..704, 881..908		

Seq. No.	51224	Seq. ID	OJ991121_40.0419.C36
Gene No.	108528	Strand	+
Start	1226	End	1511
Name	OJ991121_40.0419.C36.o1.np	Method	AAT/NAP
Start	1226	End	1511
GI	3164130	Score	171
Exons	1226..1511		

GI Descrip. (D78600) cytochrome P450 monooxygenase [Arabidopsis thaliana]

Seq. No.	51224	Seq. ID	OJ991121_40.0419.C36
Gene No.	108529	Strand	-
Start	374	End	1509
Name	OJ991121_40.0419.C36.o1.gs	Method	GENSCAN
Start	374	End	1449
GI	none	Score	.66
Exons	374..581, 1301..1449		

Seq. No.	51224	Seq. ID	OJ991121_40.0419.C36
Gene No.	108529	Strand	-
Start	374	End	1509
Name	OJ991121_40.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	1253	End	1509
GI	none	Score	73
Exons	1253..1348, 1261..1347, 1336..1452, 1337..1459, 1362..1508, 1363..1509		

Seq. No.	51225	Seq. ID	OJ991121_40.0419.C37
Gene No.	108530	Strand	-
Start	2539	End	2757
Name	OJ991121_40.0419.C37.o1.gs	Method	GENSCAN
Start	2539	End	2757
GI	none	Score	.71
Exons	2539..2757		

Seq. No.	51226	Seq. ID	OJ991121_40.0419.C38
Gene No.	108531	Strand	+
Start	1	End	1197
Name	OJ991121_40.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	1197

GI	5915833	Score	542
Exons	1..74, 577..1197		
GI Descrip.	CYTOCHROME P450 76C3 gi 2979550 gb AAC06159.1 (AC003680) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	51226	Seq. ID	OJ991121_40.0419.C38
Gene No.	108531	Strand	+
Start	1	End	1197
Name	OJ991121_40.0419.C38.o1.gs	Method	GENSCAN
Start	144	End	1179
GI	none	Score	.9
Exons	144..176, 577..1179		

Seq. No.	51226	Seq. ID	OJ991121_40.0419.C38
Gene No.	108531	Strand	+
Start	1	End	1197
Name	OJ991121_40.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	558	End	1143
GI	none	Score	158
Exons	558..788, 565..765, 820..1143, 822..1133		

Seq. No.	51226	Seq. ID	OJ991121_40.0419.C38
Gene No.	108531	Strand	+
Start	1	End	1197
Name	OJ991121_40.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	575	End	1103
GI	none	Score	133
Exons	575..763, 576..803, 577..765, 789..935, 790..936, 805..942, 940..1101, 946..1047, 948..1103, 969..1103		

Seq. No.	51226	Seq. ID	OJ991121_40.0419.C38
Gene No.	108531	Strand	+
Start	1	End	1197
Name	OJ991121_40.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	576	End	1173
GI	none	Score	193
Exons	576..791, 577..765, 805..1104, 822..1103, 1096..1173		

Seq. No.	51226	Seq. ID	OJ991121_40.0419.C38
Gene No.	108531	Strand	+
Start	1	End	1197
Name	OJ991121_40.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	834	End	1137
GI	none	Score	122
Exons	834..938, 835..939, 946..1101, 948..1097, 1104..1133, 1105..1137		

Seq. No.	51227	Seq. ID	OJ991121_40.0419.C39
Gene No.	108532	Strand	+
Start	1	End	1494
Name	OJ991121_40.0419.C39.o1.np	Method	AAT/NAP
Start	1	End	1494
GI	5915832	Score	53
Exons	1..55, 1168..1319, 1462..1494		
GI Descrip.	CYTOCHROME P450 76C2 gi 2979549 gb AAC06158.1 (AC003680) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	51227	Seq. ID	OJ991121_40.0419.C39
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Gene No.	108532	Strand	+
Start	1	End	1494
Name	OJ991121_40.0419.C39.o1.gs	Method	GENSCAN
Start	1176	End	1346
GI	none	Score	.78
Exons	1176..1346		

Seq. No.	51228	Seq. ID	OJ991121_40.0419.C42
Gene No.	108533	Strand	+
Start	366	End	1369
Name	OJ991121_40.0419.C42.o1.gs	Method	GENSCAN
Start	366	End	1369
GI	none	Score	.7
Exons	366..422, 659..829, 1220..1369		

Seq. No.	51228	Seq. ID	OJ991121_40.0419.C42
Gene No.	108534	Strand	-
Start	1	End	862
Name	OJ991121_40.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	862
GI	5922623	Score	237
Exons	1..79, 247..401, 778..862		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016856 dbj BAA85199.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	51229	Seq. ID	OJ991121_40.0419.C45
Gene No.	108535	Strand	-
Start	1	End	154
Name	OJ991121_40.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	154
GI	6721517	Score	96
Exons	1..38, 91..154		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		

Seq. No.	51229	Seq. ID	OJ991121_40.0419.C45
Gene No.	108535	Strand	-
Start	1	End	154
Name	OJ991121_40.0419.C45.o1.gs	Method	GENSCAN
Start	21	End	154
GI	none	Score	.9
Exons	21..154		

Seq. No.	51230	Seq. ID	OJ991121_40.0419.C46
Gene No.	108536	Strand	+
Start	692	End	2792
Name	OJ991121_40.0419.C46.o1.gs	Method	GENSCAN
Start	692	End	2792
GI	none	Score	.63
Exons	692..1262, 1946..2048, 2663..2792		

Seq. No.	51231	Seq. ID	OJ991121_40.0419.C47
Gene No.	108537	Strand	-
Start	314	End	3612
Name	OJ991121_40.0419.C47.o1.gs	Method	GENSCAN
Start	314	End	3560
GI	none	Score	.83

Exons 314..336, 2499..2528, 3368..3560

Seq. No.	51231	Seq. ID	OJ991121_40.0419.C47
Gene No.	108537	Strand	-
Start	314	End	3612
Name	OJ991121_40.0419.C47.o1.gp	Method	AAT/GAP
Start	705	End	1033
GI	4716319	Score	571
Exons	705..1033		

Seq. No.	51231	Seq. ID	OJ991121_40.0419.C47
Gene No.	108537	Strand	-
Start	314	End	3612
Name	OJ991121_40.0419.C47.o2.gp	Method	AAT/GAP
Start	3323	End	3612
GI	4716318	Score	449
Exons	3323..3612		

Seq. No.	51232	Seq. ID	OJ991121_40.0419.C49
Gene No.	108538	Strand	-
Start	502	End	738
Name	OJ991121_40.0419.C49.o2.gp	Method	AAT/GAP
Start	502	End	738
GI	61605_3.R1084	Score	321
Exons	502..738		
GI Descrip.	'1402920/emb CAA66965 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108539	Strand	+
Start	6865	End	19217
Name	OJ991121_41.0421.C3.o1.np	Method	AAT/NAP
Start	6865	End	19217
GI	7486214	Score	3433
Exons	6865..6892, 8588..9256, 10162..10269, 10574..10782, 11833..11952, 12065..12193, 12274..12399, 13678..13795, 14212..14421, 14510..14822, 15419..15512, 15734..15842, 16123..16394, 16477..16604, 16712..16946, 17450..17638, 17725..17974, 18094..18278, 18366..18609, 19099..19217		
GI Descrip.	hypothetical protein F26P21.40 - Arabidopsis thaliana gi 3688173 emb CAA21201.1 (AL031804) putative protein [Arabidopsis thaliana] gi 7270239 emb CAB80009.1 (AL161582) putative protein [Arabidopsis thaliana]		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108539	Strand	+
Start	6865	End	19217
Name	OJ991121_41.0421.C3.o2.gs	Method	GENSCAN
Start	8461	End	19146
GI	none	Score	.9
Exons	8461..9293, 10154..10269, 10574..10782, 11833..11952, 12065..12193, 12751..12855, 13678..13795, 14212..14421, 14510..14822, 15419..15512, 15804..15842, 16477..16604, 16712..16946, 17450..17638, 17725..18008, 18098..18278, 18438..18608, 18784..18866, 18999..19146		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
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Gene No.	108539	Strand	+
Start	6865	End	19217
Name	OJ991121_41.0421.C3.o2.gp	Method	AAT/GAP
Start	16122	End	16813
GI	uC-osflm202107b01b1	Score	942
Exons	16122..16394, 16477..16604, 16712..16813		
GI Descrip.	'762924/emb X85998 DMELAST 7.0e-22 D.melanogaster mRNA for elastin-like protein'		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108539	Strand	+
Start	6865	End	19217
Name	OJ991121_41.0421.C3.o4.gp	Method	AAT/GAP
Start	18764	End	19217
GI	none	Score	538
Exons	18764..18866, 18999..19217		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108540	Strand	+
Start	19363	End	19647
Name	OJ991121_41.0421.C3.o5.gp	Method	AAT/GAP
Start	19363	End	19647
GI	none	Score	524
Exons	19363..19647		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108541	Strand	+
Start	20620	End	33014
Name	OJ991121_41.0421.C3.o2.np	Method	AAT/NAP
Start	20620	End	33014
GI	7486814	Score	488
Exons	20620..20643, 23876..23971, 24555..24644, 24761..25009, 25113..25292, 27485..27585, 32991..33014		
GI Descrip.	hypothetical protein M7J2.190 - Arabidopsis thaliana gi 2980806 emb CAA18182.1 (AL022197) putative protein [Arabidopsis thaliana]		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108541	Strand	+
Start	20620	End	33014
Name	OJ991121_41.0421.C3.o5.gs	Method	GENSCAN
Start	23852	End	30384
GI	none	Score	.56
Exons	23852..23971, 24555..24644, 24761..24946, 25113..25292, 27265..27354, 27441..27585, 27609..27776, 30278..30384		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108541	Strand	+
Start	20620	End	33014
Name	OJ991121_41.0421.C3.o7.gp	Method	AAT/GAP
Start	24800	End	27585
GI	uC-osflcyp078g04b1	Score	922
Exons	24800..25009, 25113..25292, 27485..27585		
GI Descrip.	'2980806/emb CAA18182.1 4.0e-44 (AL022197) putative protein [Arabidopsis thaliana]'		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
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Gene No.	108541	Strand	+
Start	20620	End	33014
Name	OJ991121_41.0421.C3.o8.gp	Method	AAT/GAP
Start	31903	End	32323
GI	uC-osroM202030e11a1	Score	838
Exons	31903..32323		
GI Descrip.	'4191780 3.0e-12 (AC005917) putative cytokinin oxidase [Arabidopsis thaliana]'		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108542	Strand	+
Start	35713	End	36461
Name	OJ991121_41.0421.C3.o7.gs	Method	GENSCAN
Start	35713	End	36461
GI	none	Score	.55
Exons	35713..35726, 35777..35928, 36427..36461		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108543	Strand	+
Start	39417	End	39594
Name	OJ991121_41.0421.C3.o8.gs	Method	GENSCAN
Start	39417	End	39594
GI	none	Score	.89
Exons	39417..39594		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108544	Strand	-
Start	2722	End	3367
Name	OJ991121_41.0421.C3.o1.gp	Method	AAT/GAP
Start	704	End	1067
GI	2310331	Score	484
Exons	704..881, 955..1067		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108544	Strand	-
Start	2722	End	3367
Name	OJ991121_41.0421.C3.o1.gs	Method	GENSCAN
Start	2722	End	3367
GI	none	Score	.63
Exons	2722..2737, 3186..3367		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108545	Strand	-
Start	20059	End	20773
Name	OJ991121_41.0421.C3.o3.gs	Method	GENSCAN
Start	20059	End	20773
GI	none	Score	.4
Exons	20059..20085, 20449..20605, 20610..20773		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108546	Strand	-
Start	22891	End	23148
Name	OJ991121_41.0421.C3.o4.gs	Method	GENSCAN
Start	22891	End	23148
GI	none	Score	.95
Exons	22891..22926, 23053..23148		

Seq. No. 51233
 Gene No. 108547
 Start 23951
 Name OJ991121_41.0421.C3.o6.gp
 Start 23951
 GI none
 Exons 23951..24383

Seq. ID OJ991121_41.0421.C3
 Strand -
 End 24383
 Method AAT/GAP
 End 24383
 Score 854

Seq. No. 51233
 Gene No. 108548
 Start 32194
 Name OJ991121_41.0421.C3.o4.tm
 Start 10166
 GI none
 Exons 10166..10267, 10174..10266,
 10573..10785, 10573..10782,
 11829..11930, 11830..11931

Seq. ID OJ991121_41.0421.C3
 Strand -
 End 34755
 Method TBLASTX:Maize
 End 11931
 Score 111

Seq. No. 51233
 Gene No. 108548
 Start 32194
 Name OJ991121_41.0421.C3.o5.tc
 Start 10572
 GI none
 Exons 10572..10619, 10573..10785,
 11832..11954

Seq. ID OJ991121_41.0421.C3
 Strand -
 End 34755
 Method TBLASTX:Cress
 End 11955
 Score 236

Seq. No. 51233
 Gene No. 108548
 Start 32194
 Name OJ991121_41.0421.C3.o6.tm
 Start 12060
 GI none
 Exons 12060..12194, 12061..12201,
 12062..12196, 12265..12402,
 12273..12419, 13334..13396,

Seq. ID OJ991121_41.0421.C3
 Strand -
 End 34755
 Method TBLASTX:Maize
 End 13396
 Score 69

Seq. No. 51233
 Gene No. 108548
 Start 32194
 Name OJ991121_41.0421.C3.o8.tm
 Start 14296
 GI none
 Exons 14296..14421, 14298..14420,
 14509..14625, 14604..14624

Seq. ID OJ991121_41.0421.C3
 Strand -
 End 34755
 Method TBLASTX:Maize
 End 14625
 Score 172

Seq. No. 51233
 Gene No. 108548
 Start 32194
 Name OJ991121_41.0421.C3.o1.tm
 Start 14626
 GI none
 Exons 14626..14820, 14627..14818,
 15418..15516, 15419..15514,
 16086..16238, 16111..16395,
 16122..16406, 16468..16608,
 16713..16739, 16713..16739

Seq. ID OJ991121_41.0421.C3
 Strand -
 End 34755
 Method TBLASTX:Maize
 End 16739
 Score 148

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o1.tc	Method	TBLASTX:Cress
Start	16176	End	16760
GI	none	Score	270
Exons	16176..16406, 16178..16399, 16468..16584, 16474..16569, 16476..16583, 16578..16610, 16579..16608, 16712..16747, 16713..16760		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o3.tm	Method	TBLASTX:Maize
Start	16782	End	17922
GI	none	Score	189
Exons	16782..16940, 16785..16958, 16786..16959, 16790..16948, 17429..17638, 17447..17638, 17560..17640, 17721..17846, 17722..17922, 17724..17912		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o2.tc	Method	TBLASTX:Cress
Start	17511	End	17952
GI	none	Score	88
Exons	17511..17600, 17513..17641, 17513..17647, 17743..17952, 17754..17951		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o2.tm	Method	TBLASTX:Maize
Start	18095	End	19230
GI	none	Score	267
Exons	18095..18283, 18096..18284, 18099..18278, 18100..18279, 18355..18462, 18363..18611, 18364..18609, 18365..18610, 18784..18867, 18784..18870, 18991..19146, 18998..19147, 19008..19145, 19011..19160, 19166..19222, 19173..19229, 19179..19223, 19183..19230		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o3.tc	Method	TBLASTX:Cress
Start	24962	End	27779
GI	none	Score	67
Exons	24962..25015, 24973..25026, 25110..25292, 25112..25306, 27478..27567, 27485..27556, 27551..27586, 27674..27766, 27675..27779		

Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o5.tm	Method	TBLASTX:Maize
Start	25103	End	25319

GI	none	Score	283
Exons	25103..25297, 25104..25319		
Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o6.gs	Method	GENSCAN
Start	32194	End	34672
GI	none	Score	.93
Exons	32194..32488, 32584..33274, 34060..34672		
Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o3.np	Method	AAT/NAP
Start	32197	End	34675
GI	3882018	Score	1739
Exons	32197..32488, 32584..33274, 34060..34675		
GI Descrip.	(Y18377) cytokinin oxidase [Zea mays]		
Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o7.tc	Method	TBLASTX:Cress
Start	32200	End	32451
GI	none	Score	135
Exons	32200..32451, 32213..32377		
Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o7.tm	Method	TBLASTX:Maize
Start	32260	End	32822
GI	none	Score	83
Exons	32260..32397, 32267..32377, 32410..32451, 32583..32618, 32625..32822		
Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o6.tc	Method	TBLASTX:Cress
Start	32580	End	32813
GI	none	Score	103
Exons	32580..32813, 32581..32733		
Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o4.tc	Method	TBLASTX:Cress
Start	33183	End	34234
GI	none	Score	78
Exons	33183..33266, 33184..33297, 34058..34234, 34059..34181		
Seq. No.	51233	Seq. ID	OJ991121_41.0421.C3
Gene No.	108548	Strand	-
Start	32194	End	34755
Name	OJ991121_41.0421.C3.o9.gp	Method	AAT/GAP

Start	34339	End	34755
GI	uC-osroM202030e11b1	Score	786
Exons	34339..34755		
GI Descrip.	'3341978/gb AAC27500 3.0e-19 (AF044603) cytokinin oxidase [Zea mays]'		

Seq. No.	51234	Seq. ID	OJ991121_41.0421.C4
Gene No.	108549	Strand	-
Start	2406	End	3707
Name	OJ991121_41.0421.C4.o1.gs	Method	GENSCAN
Start	2406	End	3707
GI	none	Score	.5
Exons	2406..2541, 3685..3707		

Seq. No.	51235	Seq. ID	OJ991121_41.0421.C5
Gene No.	108550	Strand	+
Start	1	End	2001
Name	OJ991121_41.0421.C5.o1.np	Method	AAT/NAP
Start	1	End	2001
GI	5852093	Score	71
Exons	1..60, 145..261, 1973..2001		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	51235	Seq. ID	OJ991121_41.0421.C5
Gene No.	108551	Strand	-
Start	2825	End	6468
Name	OJ991121_41.0421.C5.o1.gs	Method	GENSCAN
Start	2825	End	6449
GI	none	Score	.56
Exons	2825..2897, 4108..4305, 4752..4845, 5691..6111, 6241..6449		

Seq. No.	51235	Seq. ID	OJ991121_41.0421.C5
Gene No.	108551	Strand	-
Start	2825	End	6468
Name	OJ991121_41.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	5528	End	6452
GI	none	Score	58
Exons	5528..5623, 5539..5625, 5635..5724, 5651..5731, 5717..5833, 5731..5796, 5815..5853, 6241..6441, 6241..6450, 6242..6451, 6246..6452		

Seq. No.	51235	Seq. ID	OJ991121_41.0421.C5
Gene No.	108551	Strand	-
Start	2825	End	6468
Name	OJ991121_41.0421.C5.o2.np	Method	AAT/NAP
Start	5542	End	6451
GI	2062176	Score	394
Exons	5542..6064, 6239..6451		
GI Descrip.	(AC001645) Myb-related transcription activator (MybSt1) isolog [Arabidopsis thaliana]		

Seq. No.	51235	Seq. ID	OJ991121_41.0421.C5
Gene No.	108551	Strand	-
Start	2825	End	6468
Name	OJ991121_41.0421.C5.o1.tc	Method	TBLASTX:Cress
Start	5575	End	6451
GI	none	Score	69

Exons 5575..5724, 5597..5734, 5731..5778, 5815..5877, 6238..6378,
6239..6376, 6250..6381, 6382..6450, 6383..6451

Seq. No. 51235 Seq. ID OJ991121_41.0421.C5
Gene No. 108551 Strand -
Start 2825 End 6468
Name OJ991121_41.0421.C5.o1.tm Method TBLASTX:Maize
Start 5596 End 6468
GI none Score 250
Exons 5596..5622, 5659..5724, 5731..5778, 6244..6450, 6245..6451,
6250..6468, 6252..6458

Seq. No. 51235 Seq. ID OJ991121_41.0421.C5
Gene No. 108551 Strand -
Start 2825 End 6468
Name OJ991121_41.0421.C5.o1.tw Method TBLASTX:Wheat
Start 6244 End 6451
GI none Score 135
Exons 6244..6450, 6250..6441, 6251..6451

Seq. No. 51236 Seq. ID OJ991121_41.0421.C6
Gene No. 108552 Strand +
Start 5556 End 8157
Name OJ991121_41.0421.C6.o2.np Method AAT/NAP
Start 5556 End 8157
GI 6686396 Score 347
Exons 5556..5606, 7675..8157
GI Descrip. (AC007234) F1E22.10 [Arabidopsis thaliana]

Seq. No. 51236 Seq. ID OJ991121_41.0421.C6
Gene No. 108553 Strand +
Start 9348 End 14275
Name OJ991121_41.0421.C6.o3.gs Method GENSCAN
Start 9348 End 14275
GI none Score .84
Exons 9348..9362, 10081..10224, 11047..11166, 11739..11934,
12186..12284, 12742..12793, 13012..13148, 13230..13330,
13422..13480, 13826..13871, 14000..14079, 14185..14275

Seq. No. 51236 Seq. ID OJ991121_41.0421.C6
Gene No. 108553 Strand +
Start 9348 End 14275
Name OJ991121_41.0421.C6.o2.gp Method AAT/GAP
Start 10090 End 11933
GI LIB3477-009-P1-K1-F8 Score 811
Exons 10090..10327, 11739..11933
GI Descrip. '5302799/emb|CAB46041.1| 7.0e-15 (Z97341) gibberellin
oxidase-like protein [Arabidopsis thaliana]'

Seq. No. 51236 Seq. ID OJ991121_41.0421.C6
Gene No. 108553 Strand +
Start 9348 End 14275
Name OJ991121_41.0421.C6.o3.np Method AAT/NAP
Start 10220 End 14080
GI 6523052 Score 738
Exons 10220..10327, 11739..11934, 12186..12284, 12742..12793,
13012..13136, 13236..13330, 13422..13480, 13635..13691,

13826..13871, 14000..14080
 GI Descrip. (AL133314) putative protein [Arabidopsis thaliana]

Seq. No.	51236	Seq. ID	OJ991121_41.0421.C6
Gene No.	108553	Strand	+
Start	9348	End	14275
Name	OJ991121_41.0421.C6.o3.gp	Method	AAT/GAP
Start	12888	End	13223
GI	LIB3432-018-P1-K1-G11	Score	629
Exons	12888..13223		
GI Descrip.	'3819376/emb AJ234593.1 HVU234593 2.0e-11 Hordeum vulgare genomic DNA fragment; clone MWG0852.uni'		

Seq. No.	51236	Seq. ID	OJ991121_41.0421.C6
Gene No.	108554	Strand	+
Start	14230	End	14459
Name	OJ991121_41.0421.C6.o4.gp	Method	AAT/GAP
Start	14230	End	14459
GI	3760290	Score	437
Exons	14230..14459		

Seq. No.	51236	Seq. ID	OJ991121_41.0421.C6
Gene No.	108555	Strand	-
Start	1	End	2074
Name	OJ991121_41.0421.C6.o1.gp	Method	AAT/GAP
Start	1836	End	2074
GI	2431150	Score	425
Exons	1836..2074		
GI Descrip.	3819376/emb AJ234593.1 HVU234593 2.0e-11 Hordeum vulgare genomic DNA fragment; clone MWG0852.uni		

Seq. No.	51236	Seq. ID	OJ991121_41.0421.C6
Gene No.	108556	Strand	-
Start	7648	End	8586
Name	OJ991121_41.0421.C6.o2.gs	Method	GENSCAN
Start	7648	End	8586
GI	none	Score	.84
Exons	7648..8258, 8511..8586		

Seq. No.	51236	Seq. ID	OJ991121_41.0421.C6
Gene No.	108556	Strand	-
Start	7648	End	8586
Name	OJ991121_41.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	7657	End	8180
GI	none	Score	351
Exons	7657..7995, 7666..8142, 7854..8180		

Seq. No.	51236	Seq. ID	OJ991121_41.0421.C6
Gene No.	108556	Strand	-
Start	7648	End	8586
Name	OJ991121_41.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	7675	End	8157
GI	none	Score	344
Exons	7675..8157, 7875..8108		

Seq. No.	51236	Seq. ID	OJ991121_41.0421.C6
Gene No.	108556	Strand	-

Start	7648	End	8586
Name	OJ991121_41.0421.C6.o2.tc	Method	TBLASTX:Cress
Start	7852	End	8168
GI	none	Score	72
Exons	7852..7944, 7938..8168, 7951..8139		

Seq. No.	51236	Seq. ID	OJ991121_41.0421.C6
Gene No.	108557	Strand	
Start	10268	End	14275
Name	OJ991121_41.0421.C6.o2.ts	Method	TBLASTX:Soybean
Start	10268	End	14275
GI	none	Score	66
Exons	10268..10342, 11725..11871, 11736..11948, 11739..11939, 12185..12280, 12185..12274, 12741..12794, 13004..13135, 13022..13135, 13208..13333, 13228..13326, 13407..13466, 13416..13481, 13421..13480, 13639..13692, 13824..13883, 13999..14076, 14000..14080, 14175..14255, 14177..14275		

Seq. No.	51236	Seq. ID	OJ991121_41.0421.C6
Gene No.	108557	Strand	
Start	10268	End	14275
Name	OJ991121_41.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	11695	End	13864
GI	none	Score	83
Exons	11695..11838, 11734..11838, 11736..11972, 11738..11935, 11739..11942, 12182..12277, 12738..12794, 12995..13135, 13235..13333, 13243..13329, 13416..13481, 13421..13480, 13621..13692, 13641..13694, 13820..13864		

Seq. No.	51236	Seq. ID	OJ991121_41.0421.C6
Gene No.	108557	Strand	
Start	10268	End	14275
Name	OJ991121_41.0421.C6.o2.tm	Method	TBLASTX:Maize
Start	11772	End	13333
GI	none	Score	266
Exons	11772..11939, 11772..11942, 12162..12275, 12182..12280, 12185..12274, 12186..12275, 12235..12291, 12740..12799, 12741..12794, 12995..13135, 13016..13135, 13065..13136, 13208..13333, 13210..13329, 13229..13333		

Seq. No.	51236	Seq. ID	OJ991121_41.0421.C6
Gene No.	108557	Strand	
Start	10268	End	14275
Name	OJ991121_41.0421.C6.o3.tm	Method	TBLASTX:Maize
Start	13416	End	14275
GI	none	Score	111
Exons	13416..13481, 13421..13480, 13426..13485, 13633..13680, 13636..13695, 13820..13879, 13824..13865, 13999..14079, 14000..14080, 14010..14081, 14019..14141, 14125..14247, 14175..14273, 14177..14275		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o1.np	Method	AAT/NAP
Start	5871	End	10435
GI	4680179	Score	7873

Exons 5871..10435
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o7.tw	Method	TBLASTX:Wheat
Start	6138	End	6497
GI	none	Score	298
Exons	6138..6497, 6263..6496		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o6.tm	Method	TBLASTX:Maize
Start	6378	End	6710
GI	none	Score	212
Exons	6378..6710, 6378..6662, 6395..6565		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o8.tm	Method	TBLASTX:Maize
Start	7014	End	7334
GI	none	Score	184
Exons	7014..7334, 7067..7159		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o8.tw	Method	TBLASTX:Wheat
Start	7017	End	7439
GI	none	Score	152
Exons	7017..7226, 7067..7165, 7226..7366, 7248..7439, 7277..7432		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o4.tw	Method	TBLASTX:Wheat
Start	7596	End	8078
GI	none	Score	550
Exons	7596..8078, 7700..8035, 7725..8069		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o5.tm	Method	TBLASTX:Maize
Start	7608	End	7897
GI	none	Score	322
Exons	7608..7895, 7706..7897		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o4.ts	Method	TBLASTX:Soybean
Start	7632	End	7946
GI	none	Score	183

Exons 7632..7946, 7748..7945

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o3.tm	Method	TBLASTX:Maize
Start	7965	End	8465
GI	none	Score	161
Exons	7965..8144, 8130..8465, 8216..8347, 8372..8422		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	8019	End	8414
GI	none	Score	57
Exons	8019..8051, 8019..8063, 8055..8414, 8055..8135, 8150..8413		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o5.tw	Method	TBLASTX:Wheat
Start	8127	End	8429
GI	none	Score	400
Exons	8127..8429, 8147..8428		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o2.tw	Method	TBLASTX:Wheat
Start	8430	End	8939
GI	none	Score	628
Exons	8430..8939, 8462..8773, 8472..8855		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o3.ts	Method	TBLASTX:Soybean
Start	8436	End	8681
GI	none	Score	203
Exons	8436..8681		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	8502	End	8867
GI	none	Score	488
Exons	8502..8855, 8504..8770, 8556..8867		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o3.tw	Method	TBLASTX:Wheat
Start	8943	End	9422
GI	none	Score	589
Exons	8943..9422, 8976..9389, 9167..9421		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	9129	End	9446
GI	none	Score	89
Exons	9129..9302, 9303..9446, 9305..9445		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o2.ts	Method	TBLASTX:Soybean
Start	9210	End	9470
GI	none	Score	299
Exons	9210..9470, 9215..9469		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o4.tm	Method	TBLASTX:Maize
Start	9269	End	9560
GI	none	Score	386
Exons	9269..9556, 9270..9560		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	9429	End	10051
GI	none	Score	480
Exons	9429..9833, 9431..9829, 9823..10050, 9824..10051		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	9609	End	10210
GI	none	Score	226
Exons	9609..9770, 9617..9763, 9768..9830, 9770..9853, 9823..10197, 9824..10210		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o6.tw	Method	TBLASTX:Wheat
Start	10054	End	10425
GI	none	Score	378
Exons	10054..10110, 10055..10390, 10085..10165, 10150..10266, 10229..10369, 10372..10425		

Seq. No.	51237	Seq. ID	OJ991121_30.0419.C1
Gene No.	108558	Strand	+
Start	5871	End	10435
Name	OJ991121_30.0419.C1.o7.tm	Method	TBLASTX:Maize
Start	10214	End	10411
GI	none	Score	197

Exons 10214..10411

Seq. No. 51238
Gene No. 108559
Start 2827
Name OJ991121_30.0419.C3.o2.gs
Start 2827
GI none
Exons 2827..2945, 3121..3190

Seq. ID OJ991121_30.0419.C3
Strand -
End 3190
Method GENSCAN
End 3190
Score .77

Seq. No. 51239
Gene No. 108560
Start 67
Name OJ991121_30.0419.C4.o1.gs
Start 67
GI none
Exons 67..198, 681..895

Seq. ID OJ991121_30.0419.C4
Strand +
End 895
Method GENSCAN
End 895
Score .94

Seq. No. 51239
Gene No. 108561
Start 2706
Name OJ991121_30.0419.C4.o2.gs
Start 2706
GI none
Exons 2706..3644

Seq. ID OJ991121_30.0419.C4
Strand -
End 3644
Method GENSCAN
End 3644
Score .5

Seq. No. 51239
Gene No. 108561
Start 2706
Name OJ991121_30.0419.C4.o1.np
Start 2751
GI 2129830
Exons 2751..3459, 3523..3638

Seq. ID OJ991121_30.0419.C4
Strand -
End 3644
Method AAT/NAP
End 3638
Score 275

GI Descrip. heat shock transcription factor 31 - soybean (fragment)
gi|671867|emb|CAA87079| (Z46955) heat shock transcription factor
31 [Glycine max]

Seq. No. 51240
Gene No. 108562
Start 1548
Name OJ991121_30.0419.C5.o2.gs
Start 1548
GI none
Exons 1548..1724, 2142..2331, 2423..2690, 4053..4245

Seq. ID OJ991121_30.0419.C5
Strand -
End 4245
Method GENSCAN
End 4245
Score .72

Seq. No. 51241
Gene No. 108563
Start 165
Name OJ991121_30.0419.C7.o1.gs
Start 165
GI none
Exons 165..220, 495..576, 877..962, 1283..1301

Seq. ID OJ991121_30.0419.C7
Strand +
End 1301
Method GENSCAN
End 1301
Score .41

Seq. No. 51242
Gene No. 108564
Start 634
Name OJ991121_30.0419.C8.o1.gs

Seq. ID OJ991121_30.0419.C8
Strand -
End 2320
Method GENSCAN

Start 634
GI none
Exons 634..745, 2223..2320

End 2320
Score .57

Seq. No. 51243
Gene No. 108565
Start 150
Name OJ991121_30.0419.C9.o1.gs
Start 150
GI none
Exons 150..278, 1407..1524, 1996..2213

Seq. ID OJ991121_30.0419.C9
Strand +
End 2213
Method GENSCAN
End 2213
Score .83

Seq. No. 51243
Gene No. 108566
Start 2387
Name OJ991121_30.0419.C9.o2.gs
Start 2387
GI none
Exons 2387..2652

Seq. ID OJ991121_30.0419.C9
Strand +
End 2652
Method GENSCAN
End 2652
Score .99

Seq. No. 51244
Gene No. 108567
Start 1
Name OJ991121_30.0419.C10.o1.np
Start 1
GI 7434417
Exons 1..489, 574..913, 1007..1809, 1857..2166, 2205..2330
GI Descrip. hypothetical protein T26D22.12 - Arabidopsis thaliana
gi|3047096|gb|AAC13608.1| (AF058826) similar to eukaryotic
protein kinase domains (Pfam: pkinase.hmm, score: 189.74)
[Arabidopsis thaliana]

Seq. ID OJ991121_30.0419.C10
Strand +
End 5813
Method AAT/NAP
End 2330
Score 1299

Seq. No. 51244
Gene No. 108567
Start 1
Name OJ991121_30.0419.C10.o2.np
Start 46
GI 5295955
Exons 46..91, 253..431, 1778..2129, 4075..4144, 4688..4802, 5479..5813
GI Descrip. (AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555)
[Oryza sativa]

Seq. ID OJ991121_30.0419.C10
Strand +
End 5813
Method AAT/NAP
End 5813
Score 298

Seq. No. 51244
Gene No. 108567
Start 1
Name OJ991121_30.0419.C10.o1.gs
Start 49
GI none
Exons 49..2231, 2313..2373

Seq. ID OJ991121_30.0419.C10
Strand +
End 5813
Method GENSCAN
End 2373
Score .54

Seq. No. 51244
Gene No. 108567
Start 1
Name OJ991121_30.0419.C10.o2.gs
Start 3520
GI none
Exons 3520..3900

Seq. ID OJ991121_30.0419.C10
Strand +
End 5813
Method GENSCAN
End 3900
Score .86

Seq. No.	51244	Seq. ID	OJ991121_30.0419.C10
Gene No.	108568	Strand	-
Start	2482	End	2898
Name	OJ991121_30.0419.C10.o1.gp	Method	AAT/GAP
Start	2482	End	2898
GI	55965_1.R1084	Score	751
Exons	2482..2898		
GI Descrip.	'5091597/gb AC007858.1 10A19I 3.0e-11 Oryza sativa chromosome 1 BAC 10A19I, complete sequence'		

Seq. No.	51244	Seq. ID	OJ991121_30.0419.C10
Gene No.	108569	Strand	-
Start	5582	End	5764
Name	OJ991121_30.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	1	End	2157
GI	none	Score	77
Exons	1..114, 676..768, 1135..1272, 1182..1310, 1287..1409, 1288..1767, 1461..1766, 1906..2157		

Seq. No.	51244	Seq. ID	OJ991121_30.0419.C10
Gene No.	108569	Strand	-
Start	5582	End	5764
Name	OJ991121_30.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	1138	End	1386
GI	none	Score	109
Exons	1138..1254, 1141..1233, 1146..1259, 1243..1386, 1245..1385		

Seq. No.	51244	Seq. ID	OJ991121_30.0419.C10
Gene No.	108569	Strand	-
Start	5582	End	5764
Name	OJ991121_30.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	1183	End	1604
GI	none	Score	315
Exons	1183..1602, 1185..1406, 1461..1604		

Seq. No.	51244	Seq. ID	OJ991121_30.0419.C10
Gene No.	108569	Strand	-
Start	5582	End	5764
Name	OJ991121_30.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	1374	End	1769
GI	none	Score	88
Exons	1374..1418, 1375..1428, 1440..1769, 1441..1767		

Seq. No.	51244	Seq. ID	OJ991121_30.0419.C10
Gene No.	108569	Strand	-
Start	5582	End	5764
Name	OJ991121_30.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	1387	End	1986
GI	none	Score	485
Exons	1387..1710, 1389..1709, 1713..1781, 1714..1776, 1903..1986		

Seq. No.	51244	Seq. ID	OJ991121_30.0419.C10
Gene No.	108569	Strand	-
Start	5582	End	5764
Name	OJ991121_30.0419.C10.o3.gs	Method	GENSCAN
Start	5582	End	5764

GI	none	Score	.6
Exons	5582..5721, 5755..5764		
Seq. No.	51245	Seq. ID	OJ991121_30.0419.C11
Gene No.	108570	Strand	-
Start	467	End	1519
Name	OJ991121_30.0419.C11.o1.gs	Method	GENSCAN
Start	467	End	1519
GI	none	Score	.68
Exons	467..775, 863..984, 1414..1519		

Seq. No.	51246	Seq. ID	OJ991121_30.0419.C12
Gene No.	108571	Strand	+
Start	5014	End	8882
Name	OJ991121_30.0419.C12.o2.gp	Method	AAT/GAP
Start	4928	End	5437
GI	1631513	Score	478
Exons	4928..5161, 5326..5437		

Seq. No.	51246	Seq. ID	OJ991121_30.0419.C12
Gene No.	108571	Strand	+
Start	5014	End	8882
Name	OJ991121_30.0419.C12.o2.gs	Method	GENSCAN
Start	5014	End	8091
GI	none	Score	.78
Exons	5014..5161, 5326..5537, 6290..6396, 6562..6670, 7572..7742, 7883..7933, 8023..8091		

Seq. No.	51246	Seq. ID	OJ991121_30.0419.C12
Gene No.	108571	Strand	+
Start	5014	End	8882
Name	OJ991121_30.0419.C12.o2.np	Method	AAT/NAP
Start	6317	End	8882
GI	7484833	Score	185
Exons	6317..6396, 6562..6684, 7601..7756, 8783..8882		
GI Descrip.	carbonic anhydrase homolog T13K14.150 - Arabidopsis thaliana gi 5262789 emb CAB45894.1 (AL080282) carbonic anhydrase-like protein [Arabidopsis thaliana] gi 7268896 emb CAB79099.1 (AL161554) carbonic anhydrase-like protein [Arabidopsis thaliana]		

Seq. No.	51246	Seq. ID	OJ991121_30.0419.C12
Gene No.	108572	Strand	-
Start	1276	End	4038
Name	OJ991121_30.0419.C12.o1.gp	Method	AAT/GAP
Start	1062	End	1561
GI	LIB3431-060-P1-N1-H12	Score	780
Exons	1062..1351, 1439..1561		
GI Descrip.	'3318613/dbj BAA31583.1 2.0e-10 (AB016064) mitochondrial phosphate transporter [Zea mays]'		

Seq. No.	51246	Seq. ID	OJ991121_30.0419.C12
Gene No.	108572	Strand	-
Start	1276	End	4038
Name	OJ991121_30.0419.C12.o1.gs	Method	GENSCAN
Start	1276	End	4038
GI	none	Score	.94

Exons 1276..1351, 1439..1563, 1675..1889, 1914..1963, 2138..2499,
3188..3553, 3788..3975, 4002..4038

Seq. No. 51246 Seq. ID OJ991121_30.0419.C12
Gene No. 108572 Strand -
Start 1276 End 4038
Name OJ991121_30.0419.C12.o1.np Method AAT/NAP
Start 1291 End 3496
GI 3318615 Score 1105
Exons 1291..1351, 1439..1563, 1675..1889, 2000..2043, 2138..2499,
3188..3496
GI Descrip. (AB016065) mitochondrial phosphate transporter [Oryza sativa]

Seq. No. 51246 Seq. ID OJ991121_30.0419.C12
Gene No. 108573 Strand -
Start 9082 End 11720
Name OJ991121_30.0419.C12.o1.tc Method TBLASTX:Cress
Start 1316 End 3302
GI none Score 83
Exons 1316..1351, 1433..1558, 1438..1557, 1438..1563, 1674..1826,
1675..1908, 1676..1888, 1979..2026, 2001..2042, 2002..2037,
2137..2502, 2143..2322, 2150..2527, 3185..3301, 3210..3302

Seq. No. 51246 Seq. ID OJ991121_30.0419.C12
Gene No. 108573 Strand -
Start 9082 End 11720
Name OJ991121_30.0419.C12.o1.ts Method TBLASTX:Soybean
Start 1322 End 3305
GI none Score 212
Exons 1322..1342, 1438..1563, 1675..1908, 1676..1888, 2001..2042,
2137..2502, 2150..2527, 3185..3301, 3210..3305

Seq. No. 51246 Seq. ID OJ991121_30.0419.C12
Gene No. 108573 Strand -
Start 9082 End 11720
Name OJ991121_30.0419.C12.o1.tm Method TBLASTX:Maize
Start 1438 End 3406
GI none Score 125
Exons 1438..1566, 1438..1563, 1442..1579, 1675..1908, 1676..1888,
2001..2033, 2001..2042, 2002..2037, 2137..2502, 2158..2325,
2159..2527, 3185..3319, 3210..3314, 3314..3406

Seq. No. 51246 Seq. ID OJ991121_30.0419.C12
Gene No. 108573 Strand -
Start 9082 End 11720
Name OJ991121_30.0419.C12.o1.tw Method TBLASTX:Wheat
Start 2013 End 2503
GI none Score 282
Exons 2013..2042, 2137..2502, 2138..2503

Seq. No. 51246 Seq. ID OJ991121_30.0419.C12
Gene No. 108573 Strand -
Start 9082 End 11720
Name OJ991121_30.0419.C12.o3.gs Method GENSCAN
Start 9082 End 11720
GI none Score .85
Exons 9082..9107, 9426..9618, 9716..9996, 10295..11093, 11365..11517,

11635..11720

Seq. No.	51246	Seq. ID	OJ991121_30.0419.C12
Gene No.	108573	Strand	-
Start	9082	End	11720
Name	OJ991121_30.0419.C12.o2.tm	Method	TBLASTX:Maize
Start	9382	End	9999
GI	none	Score	314
Exons	9382..9618, 9383..9610, 9701..9997, 9702..9998, 9703..9999		

Seq. No.	51246	Seq. ID	OJ991121_30.0419.C12
Gene No.	108573	Strand	-
Start	9082	End	11720
Name	OJ991121_30.0419.C12.o3.np	Method	AAT/NAP
Start	9385	End	11033
GI	4874270	Score	1067
Exons	9385..9618, 9716..9996, 10295..11033		
GI Descrip.	(AC007354) T16B5.8 [Arabidopsis thaliana]		

Seq. No.	51246	Seq. ID	OJ991121_30.0419.C12
Gene No.	108573	Strand	-
Start	9082	End	11720
Name	OJ991121_30.0419.C12.o2.tc	Method	TBLASTX:Cress
Start	9568	End	9995
GI	none	Score	55
Exons	9568..9624, 9569..9631, 9707..9841, 9714..9842, 9845..9958, 9845..9994, 9849..9995		

Seq. No.	51246	Seq. ID	OJ991121_30.0419.C12
Gene No.	108573	Strand	-
Start	9082	End	11720
Name	OJ991121_30.0419.C12.o3.gp	Method	AAT/GAP
Start	9780	End	10480
GI	2799503	Score	628
Exons	9780..9996, 10294..10480		
GI Descrip.	4874270/gb AAD31335.1 AC007354_8 3.0e-13 (AC007354) T16B5.8 [Arabidopsis thaliana]		

Seq. No.	51246	Seq. ID	OJ991121_30.0419.C12
Gene No.	108573	Strand	-
Start	9082	End	11720
Name	OJ991121_30.0419.C12.o2.ts	Method	TBLASTX:Soybean
Start	9801	End	10403
GI	none	Score	179
Exons	9801..9998, 9803..10006, 9840..10016, 10293..10403		

Seq. No.	51246	Seq. ID	OJ991121_30.0419.C12
Gene No.	108573	Strand	-
Start	9082	End	11720
Name	OJ991121_30.0419.C12.o4.gp	Method	AAT/GAP
Start	10968	End	11287
GI	uC-osf1M202014f12b1	Score	558
Exons	10968..11287		
GI Descrip.	'4874270/gb AAD31335.1 AC007354_8 3.0e-13 (AC007354) T16B5.8 [Arabidopsis thaliana]'		

Seq. No.	51247	Seq. ID	OJ991121_30.0419.C13
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Gene No.	108574	Strand	-
Start	702	End	876
Name	OJ991121_30.0419.C13.o1.gs	Method	GENSCAN
Start	702	End	876
GI	none	Score	.87
Exons	702..839, 874..876		

Seq. No.	51248	Seq. ID	OJ991121_30.0419.C15
Gene No.	108575	Strand	+
Start	275	End	598
Name	OJ991121_30.0419.C15.o1.gs	Method	GENSCAN
Start	275	End	598
GI	none	Score	.68
Exons	275..598		

Seq. No.	51248	Seq. ID	OJ991121_30.0419.C15
Gene No.	108576	Strand	-
Start	374	End	514
Name	OJ991121_30.0419.C15.o1.gp	Method	AAT/GAP
Start	374	End	514
GI	none	Score	243
Exons	374..514		

Seq. No.	51249	Seq. ID	OJ991121_30.0419.C18
Gene No.	108577	Strand	+
Start	267	End	2349
Name	OJ991121_30.0419.C18.o1.np	Method	AAT/NAP
Start	267	End	2335
GI	6069653	Score	1105
Exons	267..1203, 1396..2335		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	51249	Seq. ID	OJ991121_30.0419.C18
Gene No.	108577	Strand	+
Start	267	End	2349
Name	OJ991121_30.0419.C18.o2.np	Method	AAT/NAP
Start	728	End	2349
GI	5734635	Score	251
Exons	728..1107, 1254..1652, 2032..2349		
GI Descrip.	(AP000391) hypothetical protein [Oryza sativa]		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108578	Strand	+
Start	615	End	2085
Name	OJ991121_30.0419.C19.o1.gs	Method	GENSCAN
Start	615	End	2085
GI	none	Score	.59
Exons	615..935, 977..1003, 1410..1601, 1789..1919, 2029..2085		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108579	Strand	+
Start	2466	End	2695
Name	OJ991121_30.0419.C19.o1.gp	Method	AAT/GAP
Start	2466	End	2695
GI	52217_1.R1084	Score	407
Exons	2466..2695		
GI Descrip.	'3688528/emb CAA06243.1 1.0e-14 (AJ004958) pre-pro-TPE4A		

protein [Pisum sativum]'

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108580	Strand	+
Start	3112	End	4074
Name	OJ991121_30.0419.C19.o2.gs	Method	GENSCAN
Start	3112	End	4074
GI	none	Score	1
Exons	3112..4074		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108580	Strand	+
Start	3112	End	4074
Name	OJ991121_30.0419.C19.o1.np	Method	AAT/NAP
Start	3121	End	4074
GI	6523100	Score	472
Exons	3121..4074		
GI Descrip.	(AL133315) putative protein [Arabidopsis thaliana]		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108581	Strand	+
Start	9488	End	12217
Name	OJ991121_30.0419.C19.o4.gs	Method	GENSCAN
Start	9488	End	12217
GI	none	Score	.85
Exons	9488..9569, 10395..10581, 10647..10734, 12197..12217		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108582	Strand	-
Start	7170	End	8705
Name	OJ991121_30.0419.C19.o2.np	Method	AAT/NAP
Start	7156	End	8457
GI	7486848	Score	853
Exons	7156..8162, 8229..8457		
GI Descrip.	hypothetical protein T10P11.1 - Arabidopsis thaliana gi 2262136 gb AAC78251.1 AAC78251 (AC002330) predicted protein of unknown function [Arabidopsis thaliana] gi 4263520 gb AAD15346.1 (AC004044) predicted protein of unknown function [Arabidopsis thaliana] gi 7269757 emb CAB77757.1 (AL161495) predicted protein of unknown function [Arabidopsis thaliana]		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108582	Strand	-
Start	7170	End	8705
Name	OJ991121_30.0419.C19.o3.gs	Method	GENSCAN
Start	7170	End	8705
GI	none	Score	1
Exons	7170..8705		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108583	Strand	-
Start	13368	End	13432
Name	OJ991121_30.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	3108	End	3591
GI	none	Score	179
Exons	3108..3296, 3109..3297, 3321..3398, 3322..3540, 3471..3560,		

3526..3591

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108583	Strand	-
Start	13368	End	13432
Name	OJ991121_30.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	3147	End	3525
GI	none	Score	55
Exons	3147..3209, 3148..3210, 3219..3296, 3229..3297, 3333..3386, 3334..3525		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108583	Strand	-
Start	13368	End	13432
Name	OJ991121_30.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	3157	End	4068
GI	none	Score	105
Exons	3157..3321, 3165..3320, 3307..3480, 3312..3404, 3496..3525, 3508..3729, 3847..4068		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108583	Strand	-
Start	13368	End	13432
Name	OJ991121_30.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	3208	End	4062
GI	none	Score	78
Exons	3208..3297, 3334..3534, 3538..3651, 3673..3738, 3769..4062, 3783..3986		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108583	Strand	-
Start	13368	End	13432
Name	OJ991121_30.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	3688	End	4078
GI	none	Score	111
Exons	3688..3840, 3711..3839, 3760..3882, 3774..4070, 3803..3844, 3829..4074, 3944..4078		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108583	Strand	-
Start	13368	End	13432
Name	OJ991121_30.0419.C19.o4.tm	Method	TBLASTX:Maize
Start	7157	End	7358
GI	none	Score	84
Exons	7157..7231, 7160..7234, 7161..7232, 7162..7269, 7233..7262, 7257..7358, 7259..7342, 7287..7358		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108583	Strand	-
Start	13368	End	13432
Name	OJ991121_30.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	7178	End	7604
GI	none	Score	289
Exons	7178..7597, 7182..7568, 7185..7604		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108583	Strand	-

Start	13368	End	13432
Name	OJ991121_30.0419.C19.o2.tc	Method	TBLASTX:Cress
Start	7188	End	7358
GI	none	Score	72
Exons	7188..7268, 7192..7269, 7272..7358, 7287..7358		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108583	Strand	-
Start	13368	End	13432
Name	OJ991121_30.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	7472	End	7648
GI	none	Score	109
Exons	7472..7564, 7473..7568, 7476..7568, 7572..7646, 7576..7647, 7577..7648		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108583	Strand	-
Start	13368	End	13432
Name	OJ991121_30.0419.C19.o5.tm	Method	TBLASTX:Maize
Start	8259	End	8744
GI	none	Score	115
Exons	8259..8366, 8260..8349, 8460..8504, 8464..8505, 8641..8688, 8670..8744, 8670..8744		

Seq. No.	51250	Seq. ID	OJ991121_30.0419.C19
Gene No.	108583	Strand	-
Start	13368	End	13432
Name	OJ991121_30.0419.C19.o5.gs	Method	GENSCAN
Start	13368	End	13432
GI	none	Score	.86
Exons	13368..13432		

Seq. No.	51251	Seq. ID	OJ991121_30.0419.C21
Gene No.	108584	Strand	+
Start	190	End	743
Name	OJ991121_30.0419.C21.o1.gp	Method	AAT/GAP
Start	190	End	743
GI	5038976	Score	1086
Exons	190..743		

Seq. No.	51251	Seq. ID	OJ991121_30.0419.C21
Gene No.	108585	Strand	-
Start	1	End	605
Name	OJ991121_30.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	581
GI	6523044	Score	350
Exons	1..335, 378..581		
GI Descrip.	(AL132976) putative protein [Arabidopsis thaliana]		

Seq. No.	51251	Seq. ID	OJ991121_30.0419.C21
Gene No.	108585	Strand	-
Start	1	End	605
Name	OJ991121_30.0419.C21.o1.gs	Method	GENSCAN
Start	10	End	605
GI	none	Score	.79
Exons	10..605		

Seq. No.	51251	Seq. ID	OJ991121_30.0419.C21
Gene No.	108585	Strand	-
Start	1	End	605
Name	OJ991121_30.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	19	End	270
GI	none	Score	51
Exons	19..60, 19..54, 55..87, 57..233, 57..86, 138..260, 139..270		

Seq. No.	51251	Seq. ID	OJ991121_30.0419.C21
Gene No.	108585	Strand	-
Start	1	End	605
Name	OJ991121_30.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	138	End	264
GI	none	Score	145
Exons	138..245, 153..263, 154..264		

Seq. No.	51252	Seq. ID	OJ991121_30.0419.C22
Gene No.	108586	Strand	+
Start	1	End	705
Name	OJ991121_30.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	705
GI	6983857	Score	348
Exons	1..705		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		

Seq. No.	51253	Seq. ID	OJ991121_30.0419.C23
Gene No.	108587	Strand	-
Start	314	End	631
Name	OJ991121_30.0419.C23.o1.np	Method	AAT/NAP
Start	314	End	545
GI	5042454	Score	102
Exons	314..545		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	51253	Seq. ID	OJ991121_30.0419.C23
Gene No.	108587	Strand	-
Start	314	End	631
Name	OJ991121_30.0419.C23.o1.gs	Method	GENSCAN
Start	368	End	631
GI	none	Score	.44
Exons	368..410, 523..631		

Seq. No.	51254	Seq. ID	OJ991211_35.0420.C1
Gene No.	108588	Strand	+
Start	279	End	938
Name	OJ991211_35.0420.C1.o1.gs	Method	GENSCAN
Start	279	End	938
GI	none	Score	.63
Exons	279..362, 447..623, 692..778, 784..938		

Seq. No.	51255	Seq. ID	OJ991211_35.0420.C2
Gene No.	108589	Strand	+
Start	955	End	1961
Name	OJ991211_35.0420.C2.o1.gs	Method	GENSCAN
Start	955	End	1961
GI	none	Score	.76
Exons	955..1017, 1512..1581, 1876..1961		

Seq. No.	51255	Seq. ID	OJ991211_35.0420.C2
Gene No.	108590	Strand	+
Start	2393	End	2458
Name	OJ991211_35.0420.C2.o2.gp	Method	AAT/GAP
Start	2393	End	2458
GI	uC-osflcyp033a04b1	Score	107
Exons	2393..2458		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51255	Seq. ID	OJ991211_35.0420.C2
Gene No.	108591	Strand	-
Start	2326	End	2460
Name	OJ991211_35.0420.C2.o1.np	Method	AAT/NAP
Start	2326	End	2460
GI	4680186	Score	194
Exons	2326..2460		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51256	Seq. ID	OJ991211_35.0420.C3
Gene No.	108592	Strand	+
Start	1	End	5459
Name	OJ991211_35.0420.C3.o3.np	Method	AAT/NAP
Start	1	End	5459
GI	3641252	Score	217
Exons	1..31, 3997..4175, 4221..4479, 4844..5153, 5376..5459		
GI Descrip.	(AF053127) leucine-rich receptor-like protein kinase [Malus domestica]		

Seq. No.	51256	Seq. ID	OJ991211_35.0420.C3
Gene No.	108592	Strand	+
Start	1	End	5459
Name	OJ991211_35.0420.C3.o1.gs	Method	GENSCAN
Start	268	End	752
GI	none	Score	.57
Exons	268..340, 667..752		

Seq. No.	51256	Seq. ID	OJ991211_35.0420.C3
Gene No.	108592	Strand	+
Start	1	End	5459
Name	OJ991211_35.0420.C3.o1.gp	Method	AAT/GAP
Start	1184	End	1565
GI	uC-osflcyp033a04b1	Score	671
Exons	1184..1565		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51256	Seq. ID	OJ991211_35.0420.C3
Gene No.	108592	Strand	+
Start	1	End	5459
Name	OJ991211_35.0420.C3.o3.gp	Method	AAT/GAP
Start	2156	End	2588
GI	uC-osflcyp033a04b1	Score	527
Exons	2156..2179, 2270..2588		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51256	Seq. ID	OJ991211_35.0420.C3
Gene No.	108593	Strand	-
Start	1	End	6591
Name	OJ991211_35.0420.C3.o1.np	Method	AAT/NAP
Start	1	End	5627
GI	5852180	Score	440
Exons	1..262, 314..432, 1414..1467, 5533..5627		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51256	Seq. ID	OJ991211_35.0420.C3
Gene No.	108593	Strand	-
Start	1	End	6591
Name	OJ991211_35.0420.C3.o2.np	Method	AAT/NAP
Start	1117	End	6591
GI	4680186	Score	367
Exons	1117..1317, 2155..2206, 6571..6591		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51257	Seq. ID	OJ991211_35.0420.C4
Gene No.	108594	Strand	+
Start	123	End	1355
Name	OJ991211_35.0420.C4.o1.gs	Method	GENSCAN
Start	123	End	1355
GI	none	Score	.91
Exons	123..197, 546..1355		

Seq. No.	51257	Seq. ID	OJ991211_35.0420.C4
Gene No.	108595	Strand	+
Start	1602	End	4261
Name	OJ991211_35.0420.C4.o1.np	Method	AAT/NAP
Start	1602	End	4261
GI	4680179	Score	2702
Exons	1602..2686, 2720..4261		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51257	Seq. ID	OJ991211_35.0420.C4
Gene No.	108595	Strand	+
Start	1602	End	4261
Name	OJ991211_35.0420.C4.o5.tw	Method	TBLASTX:Wheat
Start	1818	End	2044
GI	none	Score	211
Exons	1818..1838, 1845..2042, 1847..2044		

Seq. No.	51257	Seq. ID	OJ991211_35.0420.C4
Gene No.	108595	Strand	+
Start	1602	End	4261
Name	OJ991211_35.0420.C4.o3.tw	Method	TBLASTX:Wheat
Start	2078	End	2429
GI	none	Score	294
Exons	2078..2272, 2079..2429		

Seq. No.	51257	Seq. ID	OJ991211_35.0420.C4
Gene No.	108595	Strand	+
Start	1602	End	4261
Name	OJ991211_35.0420.C4.o3.tm	Method	TBLASTX:Maize
Start	2079	End	2441

GI none
Exons 2079..2441, 2093..2209

Score 235

Seq. No. 51257
Gene No. 108595
Start 1602
Name OJ991211_35.0420.C4.o4.tm
Start 2711
GI none
Exons 2711..3064

Seq. ID OJ991211_35.0420.C4
Strand +
End 4261
Method TBLASTX:Maize
End 3064
Score 188

Seq. No. 51257
Gene No. 108595
Start 1602
Name OJ991211_35.0420.C4.o4.tw
Start 2747
GI none
Exons 2747..2956, 2803..2955, 3001..3114, 3002..3115, 3143..3184

Seq. ID OJ991211_35.0420.C4
Strand +
End 4261
Method TBLASTX:Wheat
End 3184
Score 164

Seq. No. 51257
Gene No. 108595
Start 1602
Name OJ991211_35.0420.C4.o2.tw
Start 3280
GI none
Exons 3280..3723, 3284..3334, 3389..3766

Seq. ID OJ991211_35.0420.C4
Strand +
End 4261
Method TBLASTX:Wheat
End 3766
Score 52

Seq. No. 51257
Gene No. 108595
Start 1602
Name OJ991211_35.0420.C4.o2.tm
Start 3295
GI none
Exons 3295..3585, 3296..3583

Seq. ID OJ991211_35.0420.C4
Strand +
End 4261
Method TBLASTX:Maize
End 3585
Score 276

Seq. No. 51257
Gene No. 108595
Start 1602
Name OJ991211_35.0420.C4.o1.tm
Start 3653
GI none
Exons 3653..3832, 3661..3807, 3839..4153, 3979..4023, 4060..4110

Seq. ID OJ991211_35.0420.C4
Strand +
End 4261
Method TBLASTX:Maize
End 4153
Score 167

Seq. No. 51257
Gene No. 108595
Start 1602
Name OJ991211_35.0420.C4.o1.ts
Start 3707
GI none
Exons 3707..3739, 3709..3738, 3743..4102, 3745..3783, 3811..4101

Seq. ID OJ991211_35.0420.C4
Strand +
End 4261
Method TBLASTX:Soybean
End 4102
Score 57

Seq. No. 51257
Gene No. 108595
Start 1602
Name OJ991211_35.0420.C4.o1.tw
Start 3815
GI none

Seq. ID OJ991211_35.0420.C4
Strand +
End 4261
Method TBLASTX:Wheat
End 4216
Score 492

Exons 3815..4216, 3817..4215

Seq. No.	51258	Seq. ID	OJ991211_35.0420.C5
Gene No.	108596	Strand	+
Start	1	End	1528
Name	OJ991211_35.0420.C5.o1.np	Method	AAT/NAP
Start	1	End	1525
GI	6983860	Score	2196
Exons	1..1525		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	51258	Seq. ID	OJ991211_35.0420.C5
Gene No.	108596	Strand	+
Start	1	End	1528
Name	OJ991211_35.0420.C5.o1.gs	Method	GENSCAN
Start	3	End	1528
GI	none	Score	.59
Exons	3..605, 857..1528		

Seq. No.	51258	Seq. ID	OJ991211_35.0420.C5
Gene No.	108596	Strand	+
Start	1	End	1528
Name	OJ991211_35.0420.C5.o2.tw	Method	TBLASTX:Wheat
Start	3	End	515
GI	none	Score	632
Exons	3..515, 23..514		

Seq. No.	51258	Seq. ID	OJ991211_35.0420.C5
Gene No.	108596	Strand	+
Start	1	End	1528
Name	OJ991211_35.0420.C5.o1.tc	Method	TBLASTX:Cress
Start	222	End	539
GI	none	Score	90
Exons	222..395, 396..539, 446..538		

Seq. No.	51258	Seq. ID	OJ991211_35.0420.C5
Gene No.	108596	Strand	+
Start	1	End	1528
Name	OJ991211_35.0420.C5.o1.ts	Method	TBLASTX:Soybean
Start	303	End	564
GI	none	Score	286
Exons	303..563, 382..564, 431..562		

Seq. No.	51258	Seq. ID	OJ991211_35.0420.C5
Gene No.	108596	Strand	+
Start	1	End	1528
Name	OJ991211_35.0420.C5.o2.tm	Method	TBLASTX:Maize
Start	362	End	653
GI	none	Score	361
Exons	362..649, 363..653		

Seq. No.	51258	Seq. ID	OJ991211_35.0420.C5
Gene No.	108596	Strand	+
Start	1	End	1528
Name	OJ991211_35.0420.C5.o1.tw	Method	TBLASTX:Wheat
Start	522	End	1147

GI	none	Score	408
Exons	522..869, 578..844, 615..959, 874..1035, 878..1147, 893..1144		

Seq. No.	51258	Seq. ID	OJ991211_35.0420.C5
Gene No.	108596	Strand	+
Start	1	End	1528
Name	OJ991211_35.0420.C5.o1.tm	Method	TBLASTX:Maize
Start	702	End	1300
GI	none	Score	260
Exons	702..929, 704..943, 707..1300, 787..1161, 1022..1285		

Seq. No.	51258	Seq. ID	OJ991211_35.0420.C5
Gene No.	108596	Strand	+
Start	1	End	1528
Name	OJ991211_35.0420.C5.o3.tw	Method	TBLASTX:Wheat
Start	1147	End	1480
GI	none	Score	319
Exons	1147..1416, 1148..1480, 1151..1459		

Seq. No.	51259	Seq. ID	OJ991211_35.0420.C6
Gene No.	108597	Strand	+
Start	40	End	1793
Name	OJ991211_35.0420.C6.o1.gs	Method	GENSCAN
Start	40	End	1793
GI	none	Score	.92
Exons	40..93, 1115..1243, 1674..1793		

Seq. No.	51260	Seq. ID	OJ991211_35.0420.C7
Gene No.	108598	Strand	+
Start	99	End	277
Name	OJ991211_35.0420.C7.o1.gs	Method	GENSCAN
Start	99	End	277
GI	none	Score	.72
Exons	99..277		

Seq. No.	51260	Seq. ID	OJ991211_35.0420.C7
Gene No.	108599	Strand	+
Start	1199	End	2338
Name	OJ991211_35.0420.C7.o1.np	Method	AAT/NAP
Start	1199	End	2338
GI	6907106	Score	317
Exons	1199..1374, 1563..1809, 1845..2131, 2205..2338		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51260	Seq. ID	OJ991211_35.0420.C7
Gene No.	108600	Strand	-
Start	970	End	2236
Name	OJ991211_35.0420.C7.o2.gs	Method	GENSCAN
Start	970	End	2236
GI	none	Score	.58
Exons	970..1118, 1285..1592, 1627..1741, 1765..1885, 1949..2236		

Seq. No.	51261	Seq. ID	OJ991211_35.0420.C9
Gene No.	108601	Strand	-
Start	500	End	769
Name	OJ991211_35.0420.C9.o1.gs	Method	GENSCAN

Start 500
 GI none
 Exons 500..686, 696..769

End 769
 Score .41

Seq. No. 51262 Seq. ID OJ991211_35.0420.C11
 Gene No. 108602 Strand -
 Start 903 End 1345
 Name OJ991211_35.0420.C11.o1.tm Method TBLASTX:Maize
 Start 889 End 1345
 GI none Score 53
 Exons 889..942, 903..941, 1038..1286, 1039..1287, 1281..1310, 1307..1345

Seq. No. 51262 Seq. ID OJ991211_35.0420.C11
 Gene No. 108602 Strand -
 Start 903 End 1345
 Name OJ991211_35.0420.C11.o1.gs Method GENSCAN
 Start 903 End 1244
 GI none Score .97
 Exons 903..1244

Seq. No. 51263 Seq. ID OJ991211_35.0420.C12
 Gene No. 108603 Strand +
 Start 471 End 788
 Name OJ991211_35.0420.C12.o1.gp Method AAT/GAP
 Start 471 End 788
 GI none Score 467
 Exons 471..788

Seq. No. 51263 Seq. ID OJ991211_35.0420.C12
 Gene No. 108604 Strand +
 Start 1007 End 1198
 Name OJ991211_35.0420.C12.o1.gs Method GENSCAN
 Start 1007 End 1198
 GI none Score .49
 Exons 1007..1198

Seq. No. 51264 Seq. ID OJ991211_35.0420.C13
 Gene No. 108605 Strand -
 Start 1 End 2498
 Name OJ991211_35.0420.C13.o1.np Method AAT/NAP
 Start 1 End 2498
 GI 5107831 Score 1725
 Exons 1..2498
 GI Descrip. (AF149413) contains similarity to protein kinase domains (Pfam F00069, Score=162.6, E=6.8e-45, N=1) and leucien rich repeats (Pfam PF00560, Score=210.7, E=2.2e-59, N=10) [Arabidopsis thaliana]

Seq. No. 51264 Seq. ID OJ991211_35.0420.C13
 Gene No. 108605 Strand -
 Start 1 End 2498
 Name OJ991211_35.0420.C13.o1.gs Method GENSCAN
 Start 58 End 2498
 GI none Score .42
 Exons 58..2224, 2315..2498

Seq. No.	51264	Seq. ID	OJ991211_35.0420.C13
Gene No.	108605	Strand	-
Start	1	End	2498
Name	OJ991211_35.0420.C13.o1.gp	Method	AAT/GAP
Start	687	End	1189
GI	LIB3475-001-P1-K2-G8	Score	986
Exons	687..1189		
GI Descrip.	'5107831/gb AAD40144.1 AF149413_25 5.0e-28 (AF149413) contains similarity to protein kinase domains (Pfam F00069, Score=162.6, E=6.8e-45, N=1) and leucien rich repeats (Pfam PF00560, Score=210.7, E=2.2e-59, N=10) [Arabidopsis thaliana]'		

Seq. No.	51264	Seq. ID	OJ991211_35.0420.C13
Gene No.	108605	Strand	-
Start	1	End	2498
Name	OJ991211_35.0420.C13.o2.gp	Method	AAT/GAP
Start	1520	End	2450
GI	25162_1.R1084	Score	1821
Exons	1520..2450		
GI Descrip.	'5107831/gb AAD40144.1 AF149413_25 3.0e-47 (AF149413) contains similarity to protein kinase domains (Pfam F00069, Score=162.6, E=6.8e-45, N=1) and leucien rich repeats (Pfam PF00560, Score=210.7, E=2.2e-59, N=10) [Arabidopsis thaliana]'		

Seq. No.	51264	Seq. ID	OJ991211_35.0420.C13
Gene No.	108606	Strand	-
Start	3792	End	5003
Name	OJ991211_35.0420.C13.o2.ts	Method	TBLASTX:Soybean
Start	1	End	329
GI	none	Score	86
Exons	1..150, 3..179, 183..329		

Seq. No.	51264	Seq. ID	OJ991211_35.0420.C13
Gene No.	108606	Strand	-
Start	3792	End	5003
Name	OJ991211_35.0420.C13.o1.tc	Method	TBLASTX:Cress
Start	3	End	2342
GI	none	Score	114
Exons	3..158, 4..150, 174..353, 411..554, 433..543, 696..881, 751..783, 756..869, 828..893, 828..872, 834..1094, 885..1058, 891..1097, 891..1073, 891..1031, 892..1062, 894..1100, 894..1073, 895..1074, 900..1055, 903..1070, 903..1103, 904..1005, 966..1118, 966..1073, 975..1073, 976..1095, 1107..1166, 1158..1295, 1164..1469, 1167..1904, 1167..1550, 1167..1655, 1167..1655, 1170..1262, 1171..1512, 1197..1655, 1239..1541, 1249..1548, 1258..1494, 1269..1670, 1383..1655, 1399..1698, 1404..1541, 1450..1647, 1458..1547, 1599..1667, 1606..1647, 1608..1904, 1627..1785, 1659..1904, 1680..1967, 1680..1772, 1680..1904, 1821..1898, 1917..2081, 1965..2174, 1971..2090, 1971..2084, 1971..2081, 1980..2090, 2076..2312, 2097..2300, 2100..2267, 2109..2270, 2109..2267, 2116..2268, 2118..2309, 2118..2249, 2118..2267, 2121..2240, 2199..2342		

Seq. No.	51264	Seq. ID	OJ991211_35.0420.C13
Gene No.	108606	Strand	-
Start	3792	End	5003
Name	OJ991211_35.0420.C13.o2.tm	Method	TBLASTX:Maize

Start	3	End	578
GI	none	Score	119
Exons	3..158, 4..156, 177..338, 426..578, 430..546		

Seq. No.	51264	Seq. ID	OJ991211_35.0420.C13
Gene No.	108606	Strand	-
Start	3792	End	5003
Name	OJ991211_35.0420.C13.o1.tw	Method	TBLASTX:Wheat
Start	21	End	341
GI	none	Score	97
Exons	21..158, 22..159, 177..341		

Seq. No.	51264	Seq. ID	OJ991211_35.0420.C13
Gene No.	108606	Strand	-
Start	3792	End	5003
Name	OJ991211_35.0420.C13.o1.tm	Method	TBLASTX:Maize
Start	825	End	2300
GI	none	Score	335
Exons	825..887, 891..1106, 891..1094, 906..1073, 975..1094, 1158..1427, 1167..1514, 1170..1550, 1240..1671, 1242..1670, 1662..1904, 1680..1730, 1971..2069, 2012..2083, 2097..2300, 2100..2240		

Seq. No.	51264	Seq. ID	OJ991211_35.0420.C13
Gene No.	108606	Strand	-
Start	3792	End	5003
Name	OJ991211_35.0420.C13.o1.ts	Method	TBLASTX:Soybean
Start	825	End	2312
GI	none	Score	206
Exons	825..1094, 882..1070, 891..1043, 966..1094, 1137..1514, 1173..1550, 1233..1925, 1246..1788, 2034..2090, 2094..2267, 2097..2279, 2100..2240, 2109..2312, 2118..2213, 2181..2300, 2205..2249		

Seq. No.	51264	Seq. ID	OJ991211_35.0420.C13
Gene No.	108606	Strand	-
Start	3792	End	5003
Name	OJ991211_35.0420.C13.o2.gs	Method	GENSCAN
Start	3792	End	5003
GI	none	Score	.66
Exons	3792..3870, 4032..4165, 4848..5003		

Seq. No.	51265	Seq. ID	OJ991211_35.0420.C15
Gene No.	108607	Strand	+
Start	189	End	1845
Name	OJ991211_35.0420.C15.o1.gs	Method	GENSCAN
Start	189	End	1845
GI	none	Score	.72
Exons	189..230, 1280..1472, 1721..1845		

Seq. No.	51265	Seq. ID	OJ991211_35.0420.C15
Gene No.	108608	Strand	-
Start	1297	End	3968
Name	OJ991211_35.0420.C15.o1.np	Method	AAT/NAP
Start	1297	End	3968
GI	6063554	Score	92
Exons	1297..1449, 1762..1968, 3939..3968		

GI Descrip. (AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	51265	Seq. ID	OJ991211_35.0420.C15
Gene No.	108609	Strand	-
Start	4160	End	11621
Name	OJ991211_35.0420.C15.o3.gs	Method	GENSCAN
Start	4160	End	11621
GI	none	Score	.69
Exons	4160..4306, 8419..8431, 9013..9160, 9412..9665, 10558..10666, 11333..11621		

Seq. No.	51265	Seq. ID	OJ991211_35.0420.C15
Gene No.	108609	Strand	-
Start	4160	End	11621
Name	OJ991211_35.0420.C15.o1.gp	Method	AAT/GAP
Start	8535	End	9569
GI	21437_1.R1084	Score	823
Exons	8535..8635, 8728..8788, 9013..9160, 9412..9569		
GI Descrip.	'4093155 1.0e-36 (AF088281) phytochrome-associated protein 1 [Arabidopsis thaliana]'		

Seq. No.	51265	Seq. ID	OJ991211_35.0420.C15
Gene No.	108609	Strand	-
Start	4160	End	11621
Name	OJ991211_35.0420.C15.o2.np	Method	AAT/NAP
Start	8689	End	11217
GI	4093155	Score	340
Exons	8689..8788, 9013..9145, 9412..9663, 11170..11217		
GI Descrip.	(AF088281) phytochrome-associated protein 1 [Arabidopsis thaliana]		

Seq. No.	51265	Seq. ID	OJ991211_35.0420.C15
Gene No.	108609	Strand	-
Start	4160	End	11621
Name	OJ991211_35.0420.C15.o2.gp	Method	AAT/GAP
Start	11309	End	11617
GI	2311130	Score	537
Exons	11309..11617		

Seq. No.	51265	Seq. ID	OJ991211_35.0420.C15
Gene No.	108610	Strand	-
Start	14877	End	15101
Name	OJ991211_35.0420.C15.o1.tc	Method	TBLASTX:Cress
Start	9015	End	9676
GI	none	Score	67
Exons	9015..9128, 9015..9128, 9404..9523, 9413..9529, 9414..9530, 9423..9533, 9584..9676, 9597..9653		

Seq. No.	51265	Seq. ID	OJ991211_35.0420.C15
Gene No.	108610	Strand	-
Start	14877	End	15101
Name	OJ991211_35.0420.C15.o1.ts	Method	TBLASTX:Soybean
Start	9015	End	9683
GI	none	Score	151
Exons	9015..9179, 9015..9179, 9404..9523, 9413..9529, 9414..9545,		

9587..9679, 9588..9683

Seq. No.	51265	Seq. ID	OJ991211_35.0420.C15
Gene No.	108610	Strand	-
Start	14877	End	15101
Name	OJ991211_35.0420.C15.o1.tm	Method	TBLASTX:Maize
Start	9431	End	9640
GI	none	Score	122
Exons	9431..9532, 9432..9545, 9474..9542, 9535..9633, 9569..9640, 9585..9638		

Seq. No.	51265	Seq. ID	OJ991211_35.0420.C15
Gene No.	108610	Strand	-
Start	14877	End	15101
Name	OJ991211_35.0420.C15.o4.gs	Method	GENSCAN
Start	14877	End	15101
GI	none	Score	.65
Exons	14877..15101		

Seq. No.	51266	Seq. ID	OJ991211_35.0420.C16
Gene No.	108611	Strand	+
Start	1226	End	6017
Name	OJ991211_35.0420.C16.o1.gs	Method	GENSCAN
Start	1226	End	6017
GI	none	Score	.48
Exons	1226..1333, 4360..4473, 4579..4771, 5309..5522, 5646..5706, 5712..5906, 5941..6017		

Seq. No.	51266	Seq. ID	OJ991211_35.0420.C16
Gene No.	108612	Strand	+
Start	8384	End	8584
Name	OJ991211_35.0420.C16.o3.gs	Method	GENSCAN
Start	8384	End	8584
GI	none	Score	.74
Exons	8384..8584		

Seq. No.	51266	Seq. ID	OJ991211_35.0420.C16
Gene No.	108613	Strand	+
Start	10474	End	10943
Name	OJ991211_35.0420.C16.o4.gs	Method	GENSCAN
Start	10474	End	10943
GI	none	Score	.62
Exons	10474..10639, 10651..10943		

Seq. No.	51266	Seq. ID	OJ991211_35.0420.C16
Gene No.	108614	Strand	-
Start	6066	End	7806
Name	OJ991211_35.0420.C16.o1.gp	Method	AAT/GAP
Start	6066	End	7806
GI	10605_3.R1084	Score	1368
Exons	6066..6340, 6443..6529, 7297..7467, 7567..7806		
GI Descrip.	'445612/prf 1909359A 4.0e-54 ribosomal protein S19 [Solanum tuberosum]'		

Seq. No.	51266	Seq. ID	OJ991211_35.0420.C16
Gene No.	108614	Strand	-
Start	6066	End	7806

Name	OJ991211_35.0420.C16.o2.gs	Method	GENSCAN
Start	6196	End	7692
GI	none	Score	.74
Exons	6196..6232, 6312..6340, 6443..6529, 7297..7467, 7567..7692		
Seq. No.	51266	Seq. ID	OJ991211_35.0420.C16
Gene No.	108614	Strand	-
Start	6066	End	7806
Name	OJ991211_35.0420.C16.o1.tc	Method	TBLASTX:Cress
Start	6234	End	7669
GI	none	Score	114
Exons	6234..6341, 6443..6535, 6444..6530, 7297..7470, 7298..7414, 7567..7668, 7571..7669		
Seq. No.	51266	Seq. ID	OJ991211_35.0420.C16
Gene No.	108614	Strand	-
Start	6066	End	7806
Name	OJ991211_35.0420.C16.o1.np	Method	AAT/NAP
Start	6314	End	7680
GI	5932542	Score	490
Exons	6314..6340, 6443..6529, 7297..7467, 7567..7680		
GI Descrip.	(AC009465) putative ribosomal protein s19 or s24 [Arabidopsis thaliana]		
Seq. No.	51266	Seq. ID	OJ991211_35.0420.C16
Gene No.	108614	Strand	-
Start	6066	End	7806
Name	OJ991211_35.0420.C16.o1.tm	Method	TBLASTX:Maize
Start	6443	End	7707
GI	none	Score	140
Exons	6443..6535, 6444..6530, 7297..7470, 7298..7420, 7375..7425, 7567..7707, 7568..7705		
Seq. No.	51266	Seq. ID	OJ991211_35.0420.C16
Gene No.	108614	Strand	-
Start	6066	End	7806
Name	OJ991211_35.0420.C16.o1.ts	Method	TBLASTX:Soybean
Start	7273	End	7669
GI	none	Score	145
Exons	7273..7470, 7295..7420, 7567..7668, 7568..7669		
Seq. No.	51266	Seq. ID	OJ991211_35.0420.C16
Gene No.	108614	Strand	-
Start	6066	End	7806
Name	OJ991211_35.0420.C16.o1.tw	Method	TBLASTX:Wheat
Start	7297	End	7726
GI	none	Score	157
Exons	7297..7329, 7336..7365, 7411..7470, 7567..7695, 7568..7726, 7628..7702		
Seq. No.	51267	Seq. ID	OJ991211_35.0420.C17
Gene No.	108615	Strand	+
Start	58	End	483
Name	OJ991211_35.0420.C17.o1.gs	Method	GENSCAN
Start	58	End	483
GI	none	Score	1
Exons	58..483		

Seq. No.	51267	Seq. ID	OJ991211_35.0420.C17
Gene No.	108616	Strand	-
Start	1	End	836
Name	OJ991211_35.0420.C17.o1.np	Method	AAT/NAP
Start	1	End	836
GI	5852171	Score	172
Exons	1..58, 406..739, 782..836		
GI Descrip.	(AL117265) zhb0001.1 [Oryza sativa]		

Seq. No.	51267	Seq. ID	OJ991211_35.0420.C17
Gene No.	108617	Strand	-
Start	995	End	2087
Name	OJ991211_35.0420.C17.o2.np	Method	AAT/NAP
Start	995	End	2087
GI	5777617	Score	87
Exons	995..1100, 2059..2087		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	51268	Seq. ID	OJ991211_35.0420.C18
Gene No.	108618	Strand	+
Start	1809	End	3795
Name	OJ991211_35.0420.C18.o1.gs	Method	GENSCAN
Start	1809	End	3795
GI	none	Score	.4
Exons	1809..2114, 3673..3795		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o1.tc	Method	TBLASTX:Cress
Start	643	End	4605
GI	none	Score	118
Exons	643..732, 644..739, 644..733, 645..734, 1226..1327, 1227..1322, 1229..1747, 1231..1743, 1370..1744, 1420..1749, 2814..2930, 2931..2981, 3005..3184, 3006..3185, 3226..3264, 3246..3419, 3390..3446, 3498..3566, 3561..3680, 3656..3757, 3657..3776, 3663..3776, 3883..3957, 3888..4088, 3888..4079, 4185..4340, 4268..4426, 4270..4341, 4380..4601, 4384..4605, 4390..4605		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o4.tw	Method	TBLASTX:Wheat
Start	643	End	1306
GI	none	Score	128
Exons	643..723, 644..724, 1149..1301, 1157..1300, 1171..1305, 1172..1306		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o1.gs	Method	GENSCAN
Start	644	End	4629
GI	none	Score	.46
Exons	644..722, 1182..1748, 2812..3605, 3892..4079, 4188..4629		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o1.np	Method	AAT/NAP
Start	644	End	4629
GI	7488211	Score	2518
Exons	644..722, 1182..1748, 2812..3488, 3519..3776, 3892..4079, 4188..4629		
GI Descrip.	probable sugar transport protein F23E12.140 - Arabidopsis thaliana gi 3080420 emb CAA18739.1 (AL022604) putative sugar transporter protein [Arabidopsis thaliana] gi 7270482 emb CAB80247.1 (AL161587) putative sugar transporter protein [Arabidopsis thaliana]		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o2.tm	Method	TBLASTX:Maize
Start	1257	End	1563
GI	none	Score	222
Exons	1257..1562, 1258..1563, 1270..1563		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o2.ts	Method	TBLASTX:Soybean
Start	1274	End	2849
GI	none	Score	603
Exons	1274..1750, 1279..1749, 1605..1769, 2808..2849		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o1.tw	Method	TBLASTX:Wheat
Start	1466	End	1696
GI	none	Score	365
Exons	1466..1696, 1468..1695		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o1.tm	Method	TBLASTX:Maize
Start	1645	End	4801
GI	none	Score	111
Exons	1645..1749, 1645..1761, 1646..1750, 2764..2874, 2768..3187, 2808..3776, 2811..3788, 3882..4082, 3882..4079, 4185..4616, 4186..4617, 4646..4687, 4742..4801		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o3.tw	Method	TBLASTX:Wheat
Start	1696	End	3071
GI	none	Score	76
Exons	1696..1749, 1697..1750, 2800..2874, 2808..2906, 2810..2905, 2811..2930, 2891..2989, 2922..2990, 2988..3071		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o3.ts	Method	TBLASTX:Soybean
Start	2852	End	3371
GI	none	Score	144
Exons	2852..3004, 2853..3005, 2990..3118, 3006..3119, 3006..3119, 3113..3151, 3114..3143, 3132..3371, 3199..3252		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o1.gp	Method	AAT/GAP
Start	3042	End	3500
GI	29902_1.R1084	Score	907
Exons	3042..3500		
GI Descrip.	'3080420/emb CAA18739.1 5.0e-31 (AL022604) putative sugar transporter protein [Arabidopsis thaliana]'		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o1.ts	Method	TBLASTX:Soybean
Start	3404	End	4617
GI	none	Score	79
Exons	3404..3451, 3405..3449, 3492..3521, 3525..3560, 3582..3776, 3591..3788, 3882..4079, 3883..3951, 3891..4085, 4185..4607, 4276..4614, 4327..4617		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o2.gp	Method	AAT/GAP
Start	3543	End	4109
GI	7237_1.R1084	Score	731
Exons	3543..3776, 3892..4109		
GI Descrip.	'3080420/emb CAA18739.1 1.0e-35 (AL022604) putative sugar transporter protein [Arabidopsis thaliana]'		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o2.tw	Method	TBLASTX:Wheat
Start	4362	End	4638
GI	none	Score	70
Exons	4362..4409, 4366..4413, 4413..4631, 4414..4608, 4420..4638		

Seq. No.	51269	Seq. ID	OJ991211_35.0420.C19
Gene No.	108619	Strand	+
Start	644	End	4964
Name	OJ991211_35.0420.C19.o3.gp	Method	AAT/GAP
Start	4493	End	4964
GI	3637_1.R1084	Score	905
Exons	4493..4964		
GI Descrip.	'3080420/emb CAA18739.1 2.0e-12 (AL022604) putative sugar transporter protein [Arabidopsis thaliana]'		

Seq. No.	51270	Seq. ID	OJ991211_35.0420.C20
Gene No.	108620	Strand	+
Start	88	End	593
Name	OJ991211_35.0420.C20.o1.gs	Method	GENSCAN
Start	88	End	593
GI	none	Score	.71
Exons	88..194, 395..593		

Seq. No.	51270	Seq. ID	OJ991211_35.0420.C20
Gene No.	108621	Strand	-
Start	744	End	5952
Name	OJ991211_35.0420.C20.o1.np	Method	AAT/NAP
Start	656	End	5905
GI	7109485	Score	1556
Exons	656..733, 759..966, 1033..1154, 1355..1515, 1591..1844, 1924..2084, 2281..2481, 2596..2702, 2858..3037, 3122..3217, 3318..3399, 3493..4125, 5280..5390, 5461..5538, 5648..5731, 5825..5905		
GI Descrip.	(AC016662) putative kinesin [Arabidopsis thaliana]		

Seq. No.	51270	Seq. ID	OJ991211_35.0420.C20
Gene No.	108621	Strand	-
Start	744	End	5952
Name	OJ991211_35.0420.C20.o2.gs	Method	GENSCAN
Start	744	End	5952
GI	none	Score	.78
Exons	744..1151, 1343..1515, 1591..1844, 1924..2083, 2319..2481, 2596..2702, 2858..3037, 3122..3217, 3318..3426, 3520..4977, 5316..5390, 5648..5731, 5825..5952		

Seq. No.	51270	Seq. ID	OJ991211_35.0420.C20
Gene No.	108621	Strand	-
Start	744	End	5952
Name	OJ991211_35.0420.C20.o1.tw	Method	TBLASTX:Wheat
Start	1083	End	1687
GI	none	Score	82
Exons	1083..1154, 1340..1387, 1355..1447, 1355..1516, 1419..1517, 1431..1529, 1569..1685, 1589..1687, 1590..1685		

Seq. No.	51270	Seq. ID	OJ991211_35.0420.C20
Gene No.	108621	Strand	-
Start	744	End	5952
Name	OJ991211_35.0420.C20.o1.tm	Method	TBLASTX:Maize
Start	1343	End	2085
GI	none	Score	138
Exons	1343..1519, 1402..1527, 1403..1519, 1408..1527, 1576..1692, 1588..1659, 1589..1846, 1590..1847, 1915..2082, 1926..2081, 2005..2085		

Seq. No.	51270	Seq. ID	OJ991211_35.0420.C20
Gene No.	108621	Strand	-
Start	744	End	5952
Name	OJ991211_35.0420.C20.o1.tc	Method	TBLASTX:Cress
Start	1355	End	3218
GI	none	Score	81
Exons	1355..1516, 1422..1517, 1589..1846, 1590..1847, 1915..2061, 1926..2060, 2060..2092, 2278..2493, 2314..2475, 2596..2703,		

2597..2704, 2860..2931, 2871..3038, 2989..3039, 3096..3218

Seq. No.	51270	Seq. ID	OJ991211_35.0420.C20
Gene No.	108621	Strand	-
Start	744	End	5952
Name	OJ991211_35.0420.C20.o1.ts	Method	TBLASTX:Soybean
Start	1454	End	2058
GI	none	Score	55
Exons	1454..1516, 1473..1520, 1589..1846, 1590..1847, 1914..2057, 1915..2058, 1926..2057		

Seq. No.	51270	Seq. ID	OJ991211_35.0420.C20
Gene No.	108621	Strand	-
Start	744	End	5952
Name	OJ991211_35.0420.C20.o2.ts	Method	TBLASTX:Soybean
Start	2302	End	3227
GI	none	Score	43
Exons	2302..2478, 2316..2375, 2326..2478, 2411..2482, 2596..2697, 2597..2704, 2871..2933, 2955..3038, 2956..3051, 3096..3227		

Seq. No.	51270	Seq. ID	OJ991211_35.0420.C20
Gene No.	108621	Strand	-
Start	744	End	5952
Name	OJ991211_35.0420.C20.o2.tm	Method	TBLASTX:Maize
Start	2368	End	3915
GI	none	Score	69
Exons	2368..2481, 2371..2481, 2596..2697, 2597..2704, 2855..3028, 2856..3038, 2871..3038, 2872..3039, 2902..3039, 3096..3227, 3118..3189, 3538..3792, 3763..3915		

Seq. No.	51270	Seq. ID	OJ991211_35.0420.C20
Gene No.	108621	Strand	-
Start	744	End	5952
Name	OJ991211_35.0420.C20.o3.tm	Method	TBLASTX:Maize
Start	3991	End	5536
GI	none	Score	62
Exons	3991..4056, 4225..4290, 4402..4455, 4408..4455, 4408..4476, 4435..4506, 4588..4674, 4588..4656, 4615..4683, 4768..4854, 4795..4866, 4825..4896, 5286..5390, 5287..5388, 5461..5535, 5462..5536		

Seq. No.	51270	Seq. ID	OJ991211_35.0420.C20
Gene No.	108621	Strand	-
Start	744	End	5952
Name	OJ991211_35.0420.C20.o2.tc	Method	TBLASTX:Cress
Start	5286	End	5908
GI	none	Score	148
Exons	5286..5447, 5287..5412, 5291..5413, 5291..5452, 5453..5536, 5455..5535, 5627..5734, 5634..5732, 5639..5740, 5818..5850, 5819..5908		

Seq. No.	51271	Seq. ID	OJ991211_35.0420.C22
Gene No.	108622	Strand	-
Start	347	End	388
Name	OJ991211_35.0420.C22.o1.gs	Method	GENSCAN
Start	347	End	388
GI	none	Score	.47

Exons 347..388

Seq. No.	51272	Seq. ID	OJ991211_35.0420.C23
Gene No.	108623	Strand	+
Start	1296	End	4103
Name	OJ991211_35.0420.C23.o2.np	Method	AAT/NAP
Start	1296	End	4103
GI	7106528	Score	132
Exons	1296..1375, 2129..2631, 2681..2804, 3904..4103		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51272	Seq. ID	OJ991211_35.0420.C23
Gene No.	108623	Strand	+
Start	1296	End	4103
Name	OJ991211_35.0420.C23.o1.gs	Method	GENSCAN
Start	1940	End	4022
GI	none	Score	.65
Exons	1940..1989, 2240..2367, 2702..2773, 2817..2911, 3349..3421, 3883..4022		

Seq. No.	51272	Seq. ID	OJ991211_35.0420.C23
Gene No.	108623	Strand	+
Start	1296	End	4103
Name	OJ991211_35.0420.C23.o1.np	Method	AAT/NAP
Start	2026	End	2912
GI	6907106	Score	166
Exons	2026..2912		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51272	Seq. ID	OJ991211_35.0420.C23
Gene No.	108624	Strand	-
Start	3937	End	4080
Name	OJ991211_35.0420.C23.o1.gp	Method	AAT/GAP
Start	3937	End	4080
GI	21474_1.R1084	Score	243
Exons	3937..4080		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	51272	Seq. ID	OJ991211_35.0420.C23
Gene No.	108625	Strand	-
Start	4365	End	5374
Name	OJ991211_35.0420.C23.o2.gp	Method	AAT/GAP
Start	4158	End	4266
GI	LIB3477-003-P1-K1-E9	Score	97
Exons	4158..4266		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	51272	Seq. ID	OJ991211_35.0420.C23
Gene No.	108625	Strand	-
Start	4365	End	5374
Name	OJ991211_35.0420.C23.o2.gs	Method	GENSCAN
Start	4365	End	5374

GI none Score .77
Exons 4365..4550, 4823..4895, 4980..5090, 5187..5374

Seq. No. 51272 Seq. ID OJ991211_35.0420.C23
Gene No. 108626 Strand -
Start 5318 End 5483
Name OJ991211_35.0420.C23.o3.np Method AAT/NAP
Start 5318 End 5483
GI 6742729 Score 196
Exons 5318..5483
GI Descrip. (AF121139) RIM2 protein [Oryza sativa]

Seq. No. 51272 Seq. ID OJ991211_35.0420.C23
Gene No. 108626 Strand -
Start 5318 End 5483
Name OJ991211_35.0420.C23.o3.gp Method AAT/GAP
Start 5324 End 5483
GI 342_1.R1084 Score 282
Exons 5324..5483
GI Descrip. '4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'

Seq. No. 51273 Seq. ID OJ991011_10.0419.C5
Gene No. 108627 Strand -
Start 284 End 1196
Name OJ991011_10.0419.C5.o1.gs Method GENSCAN
Start 284 End 1196
GI none Score .63
Exons 284..1196

Seq. No. 51274 Seq. ID OJ991011_10.0419.C6
Gene No. 108628 Strand +
Start 241 End 396
Name OJ991011_10.0419.C6.o1.gs Method GENSCAN
Start 241 End 396
GI none Score .5
Exons 241..396

Seq. No. 51275 Seq. ID OJ991011_10.0419.C7
Gene No. 108629 Strand +
Start 1 End 1779
Name OJ991011_10.0419.C7.o1.np Method AAT/NAP
Start 1 End 1779
GI 6721512 Score 92
Exons 1..76, 104..237, 1731..1779
GI Descrip. (AP001072) hypothetical protein [Oryza sativa]

Seq. No. 51275 Seq. ID OJ991011_10.0419.C7
Gene No. 108629 Strand +
Start 1 End 1779
Name OJ991011_10.0419.C7.o1.gs Method GENSCAN
Start 125 End 999
GI none Score .87
Exons 125..237, 536..716, 862..999

Seq. No. 51276 Seq. ID OJ991011_10.0419.C9
Gene No. 108630 Strand -

Start	1	End	995
Name	OJ991011_10.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	995
GI	4803944	Score	106
Exons	1..223, 950..995		
GI Descrip.	(AC006264) unknown protein [Arabidopsis thaliana]		

Seq. No.	51276	Seq. ID	OJ991011_10.0419.C9
Gene No.	108630	Strand	-
Start	1	End	995
Name	OJ991011_10.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	101	End	224
GI	none	Score	92
Exons	101..223, 111..224, 114..224		

Seq. No.	51276	Seq. ID	OJ991011_10.0419.C9
Gene No.	108630	Strand	-
Start	1	End	995
Name	OJ991011_10.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	101	End	224
GI	none	Score	92
Exons	101..223, 102..224		

Seq. No.	51277	Seq. ID	OJ991011_10.0419.C10
Gene No.	108631	Strand	-
Start	254	End	1013
Name	OJ991011_10.0419.C10.o1.gs	Method	GENSCAN
Start	254	End	1013
GI	none	Score	.61
Exons	254..295, 903..1013		

Seq. No.	51277	Seq. ID	OJ991011_10.0419.C10
Gene No.	108631	Strand	-
Start	254	End	1013
Name	OJ991011_10.0419.C10.o1.gp	Method	AAT/GAP
Start	525	End	949
GI	none	Score	784
Exons	525..949		

Seq. No.	51278	Seq. ID	OJ991011_10.0419.C11
Gene No.	108632	Strand	+
Start	320	End	454
Name	OJ991011_10.0419.C11.o1.gs	Method	GENSCAN
Start	320	End	454
GI	none	Score	.47
Exons	320..454		

Seq. No.	51278	Seq. ID	OJ991011_10.0419.C11
Gene No.	108633	Strand	+
Start	654	End	1021
Name	OJ991011_10.0419.C11.o1.np	Method	AAT/NAP
Start	654	End	1021
GI	7523502	Score	111
Exons	654..756, 982..1021		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	51279	Seq. ID	OJ991011_10.0419.C12
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Gene No.	108634	Strand	+
Start	1	End	99
Name	OJ991011_10.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	99
GI	6539588	Score	88
Exons	1..99		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	51279	Seq. ID	OJ991011_10.0419.C12
Gene No.	108635	Strand	+
Start	1	End	1660
Name	OJ991011_10.0419.C12.o2.np	Method	AAT/NAP
Start	1	End	1660
GI	6063554	Score	233
Exons	1..83, 1483..1660		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51279	Seq. ID	OJ991011_10.0419.C12
Gene No.	108636	Strand	-
Start	1204	End	1465
Name	OJ991011_10.0419.C12.o1.gs	Method	GENSCAN
Start	1204	End	1465
GI	none	Score	.72
Exons	1204..1331, 1387..1465		

Seq. No.	51280	Seq. ID	OJ991011_10.0419.C14
Gene No.	108637	Strand	+
Start	587	End	1388
Name	OJ991011_10.0419.C14.o1.gs	Method	GENSCAN
Start	587	End	1388
GI	none	Score	.71
Exons	587..695, 1192..1388		

Seq. No.	51281	Seq. ID	OJ991011_10.0419.C17
Gene No.	108638	Strand	-
Start	136	End	344
Name	OJ991011_10.0419.C17.o1.gs	Method	GENSCAN
Start	136	End	344
GI	none	Score	.88
Exons	136..344		

Seq. No.	51282	Seq. ID	OJ991011_10.0419.C18
Gene No.	108639	Strand	-
Start	1312	End	2009
Name	OJ991011_10.0419.C18.o2.gs	Method	GENSCAN
Start	1312	End	2009
GI	none	Score	.8
Exons	1312..1425, 1672..1787, 1844..2009		

Seq. No.	51283	Seq. ID	OJ991011_10.0419.C19
Gene No.	108640	Strand	+
Start	1	End	1254
Name	OJ991011_10.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1254
GI	4680180	Score	308

Exons 1..21, 1040..1254
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No.	51283	Seq. ID	OJ991011_10.0419.C19
Gene No.	108640	Strand	+
Start	1	End	1254
Name	OJ991011_10.0419.C19.o1.gs	Method	GENSCAN
Start	460	End	624
GI	none	Score	.73
Exons	460..624		

Seq. No.	51283	Seq. ID	OJ991011_10.0419.C19
Gene No.	108641	Strand	-
Start	1587	End	4741
Name	OJ991011_10.0419.C19.o2.gs	Method	GENSCAN
Start	1587	End	4741
GI	none	Score	.86
Exons	1587..1931, 1938..2038, 2112..2225, 2289..2478, 2553..2740, 2818..3105, 3272..3416, 3634..3967, 4621..4741		

Seq. No.	51283	Seq. ID	OJ991011_10.0419.C19
Gene No.	108641	Strand	-
Start	1587	End	4741
Name	OJ991011_10.0419.C19.o2.np	Method	AAT/NAP
Start	1590	End	4703
GI	6691716	Score	2531
Exons	1590..2038, 2112..2225, 2376..2478, 2553..2740, 2818..2997, 3074..3176, 3259..3455, 3644..4186, 4377..4703		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6691717 dbj BAA89397.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	51284	Seq. ID	OJ991011_10.0419.C20
Gene No.	108642	Strand	+
Start	1	End	424
Name	OJ991011_10.0419.C20.o1.gs	Method	GENSCAN
Start	1	End	424
GI	none	Score	.86
Exons	1..79, 399..424		

Seq. No.	51284	Seq. ID	OJ991011_10.0419.C20
Gene No.	108643	Strand	-
Start	1213	End	1811
Name	OJ991011_10.0419.C20.o2.gs	Method	GENSCAN
Start	1213	End	1811
GI	none	Score	.67
Exons	1213..1502, 1658..1811		

Seq. No.	51285	Seq. ID	OJ991011_10.0419.C21
Gene No.	108644	Strand	+
Start	1	End	175
Name	OJ991011_10.0419.C21.o1.gp	Method	AAT/GAP
Start	1	End	175
GI	none	Score	280
Exons	1..175		

Seq. No.	51285	Seq. ID	OJ991011_10.0419.C21
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Gene No.	108645	Strand	-
Start	1	End	366
Name	OJ991011_10.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	366
GI	5091523	Score	89
Exons	1..366		
GI Descrip.	(AB023482) Similar to Gallus gallus mRNA for attachment region binding protein (ARBP).(Y14166) [Oryza sativa]		

Seq. No.	51286	Seq. ID	OJ991011_10.0419.C22
Gene No.	108646	Strand	-
Start	1	End	1201
Name	OJ991011_10.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1201
GI	5922631	Score	80
Exons	1..82, 804..1201		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1 (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ		

Seq. No.	51287	Seq. ID	OJ991011_10.0419.C23
Gene No.	108647	Strand	+
Start	784	End	1396
Name	OJ991011_10.0419.C23.o1.gs	Method	GENSCAN
Start	784	End	1396
GI	none	Score	.6
Exons	784..868, 1329..1396		

Seq. No.	51287	Seq. ID	OJ991011_10.0419.C23
Gene No.	108648	Strand	-
Start	1674	End	4378
Name	OJ991011_10.0419.C23.o1.np	Method	AAT/NAP
Start	1674	End	3028
GI	7340868	Score	30
Exons	1674..1704, 2905..3028		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51287	Seq. ID	OJ991011_10.0419.C23
Gene No.	108648	Strand	-
Start	1674	End	4378
Name	OJ991011_10.0419.C23.o2.gs	Method	GENSCAN
Start	1808	End	4378
GI	none	Score	.76
Exons	1808..1919, 2665..2785, 4264..4378		

Seq. No.	51288	Seq. ID	OJ991011_10.0419.C24
Gene No.	108649	Strand	+
Start	1	End	1650
Name	OJ991011_10.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	1650
GI	7340909	Score	91
Exons	1..24, 1194..1650		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51288	Seq. ID	OJ991011_10.0419.C24
Gene No.	108650	Strand	-
Start	688	End	1549
Name	OJ991011_10.0419.C24.o1.gs	Method	GENSCAN
Start	688	End	1549
GI	none	Score	.78
Exons	688..833, 1447..1549		

Seq. No.	51289	Seq. ID	OJ991011_10.0419.C25
Gene No.	108651	Strand	-
Start	947	End	1314
Name	OJ991011_10.0419.C25.o1.gs	Method	GENSCAN
Start	947	End	1314
GI	none	Score	.4
Exons	947..1033, 1228..1314		

Seq. No.	51290	Seq. ID	OJ991011_10.0419.C26
Gene No.	108652	Strand	-
Start	1	End	2565
Name	OJ991011_10.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	239
GI	7340909	Score	119
Exons	1..239		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51290	Seq. ID	OJ991011_10.0419.C26
Gene No.	108652	Strand	-
Start	1	End	2565
Name	OJ991011_10.0419.C26.o2.np	Method	AAT/NAP
Start	1	End	2565
GI	7486881	Score	138
Exons	1..60, 1018..1101, 1147..1301, 1965..2163, 2228..2565		
GI Descrip.	hypothetical protein T12H17.150 - Arabidopsis thaliana gi 2827553 emb CAA16561.1 (AL021635) predicted protein [Arabidopsis thaliana] gi 7269122 emb CAB79231.1 (AL161557) predicted protein [Arabidopsis thaliana]		

Seq. No.	51290	Seq. ID	OJ991011_10.0419.C26
Gene No.	108653	Strand	-
Start	2514	End	2742
Name	OJ991011_10.0419.C26.o1.gp	Method	AAT/GAP
Start	2514	End	2742
GI	428720	Score	424
Exons	2514..2742		

Seq. No.	51290	Seq. ID	OJ991011_10.0419.C26
Gene No.	108654	Strand	-
Start	4012	End	5229
Name	OJ991011_10.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	1048	End	2166
GI	none	Score	72
Exons	1048..1143, 1049..1144, 1228..1287, 1229..1300, 1963..2109, 2017..2166, 2019..2165		

Seq. No.	51290	Seq. ID	OJ991011_10.0419.C26
Gene No.	108654	Strand	-

Start	4012	End	5229
Name	OJ991011_10.0419.C26.o2.gs	Method	GENSCAN
Start	4012	End	5229
GI	none	Score	.68
Exons	4012..4118, 4441..4696, 4765..5229		

Seq. No.	51291	Seq. ID	OJ991011_10.0419.C27
Gene No.	108655	Strand	+
Start	294	End	328
Name	OJ991011_10.0419.C27.o1.gs	Method	GENSCAN
Start	294	End	328
GI	none	Score	.49
Exons	294..328		

Seq. No.	51291	Seq. ID	OJ991011_10.0419.C27
Gene No.	108656	Strand	-
Start	270	End	370
Name	OJ991011_10.0419.C27.o1.np	Method	AAT/NAP
Start	270	End	370
GI	7340905	Score	104
Exons	270..370		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51292	Seq. ID	OJ991011_10.0419.C31
Gene No.	108657	Strand	+
Start	42	End	573
Name	OJ991011_10.0419.C31.o1.gs	Method	GENSCAN
Start	42	End	573
GI	none	Score	.83
Exons	42..181, 444..573		

Seq. No.	51293	Seq. ID	OJ991011_10.0419.C32
Gene No.	108658	Strand	-
Start	44	End	169
Name	OJ991011_10.0419.C32.o1.gs	Method	GENSCAN
Start	44	End	169
GI	none	Score	.91
Exons	44..169		

Seq. No.	51294	Seq. ID	OJ991011_10.0419.C34
Gene No.	108659	Strand	-
Start	2523	End	2964
Name	OJ991011_10.0419.C34.o2.gp	Method	AAT/GAP
Start	2523	End	2964
GI	4107138	Score	673
Exons	2523..2964		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-149 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	51294	Seq. ID	OJ991011_10.0419.C34
Gene No.	108659	Strand	-
Start	2523	End	2964
Name	OJ991011_10.0419.C34.o1.gp	Method	AAT/GAP
Start	2571	End	2844
GI	61605_1.R1084	Score	465
Exons	2571..2844		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa		

indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No.	51295	Seq. ID	OJ991011_10.0419.C35
Gene No.	108660	Strand	+
Start	1812	End	2546
Name	OJ991011_10.0419.C35.o2.gp	Method	AAT/GAP
Start	1812	End	2546
GI	101153_1.R1084	Score	390
Exons	1812..2041, 2499..2546		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51295	Seq. ID	OJ991011_10.0419.C35
Gene No.	108661	Strand	-
Start	1203	End	5194
Name	OJ991011_10.0419.C35.o1.np	Method	AAT/NAP
Start	1203	End	5194
GI	6063554	Score	156
Exons	1203..1377, 2012..2040, 2711..2928, 2996..3108, 3159..3269, 5151..5194		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51295	Seq. ID	OJ991011_10.0419.C35
Gene No.	108661	Strand	-
Start	1203	End	5194
Name	OJ991011_10.0419.C35.o2.gs	Method	GENSCAN
Start	3981	End	4115
GI	none	Score	.75
Exons	3981..4115		

Seq. No.	51296	Seq. ID	OJ991011_10.0419.C36
Gene No.	108662	Strand	-
Start	1	End	151
Name	OJ991011_10.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	151
GI	6721512	Score	55
Exons	1..151		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	51297	Seq. ID	OJ991011_10.0419.C37
Gene No.	108663	Strand	+
Start	261	End	1606
Name	OJ991011_10.0419.C37.o1.np	Method	AAT/NAP
Start	261	End	1606
GI	4803944	Score	154
Exons	261..388, 1528..1606		
GI Descrip.	(AC006264) unknown protein [Arabidopsis thaliana]		

Seq. No.	51297	Seq. ID	OJ991011_10.0419.C37
Gene No.	108664	Strand	-
Start	783	End	1080
Name	OJ991011_10.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	128	End	386
GI	none	Score	80
Exons	128..181, 131..184, 251..337, 252..386, 273..383		

Seq. No.	51297	Seq. ID	OJ991011_10.0419.C37
Gene No.	108664	Strand	-
Start	783	End	1080
Name	OJ991011_10.0419.C37.o1.ts	Method	TBLASTX:Soybean
Start	128	End	386
GI	none	Score	89
Exons	128..181, 134..181, 251..337, 258..386, 258..386		

Seq. No.	51297	Seq. ID	OJ991011_10.0419.C37
Gene No.	108664	Strand	-
Start	783	End	1080
Name	OJ991011_10.0419.C37.o1.gs	Method	GENSCAN
Start	783	End	1080
GI	none	Score	.96
Exons	783..919, 974..1080		

Seq. No.	51298	Seq. ID	OJ991011_10.0419.C38
Gene No.	108665	Strand	+
Start	1	End	1297
Name	OJ991011_10.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	1289
GI	4803944	Score	757
Exons	1..261, 353..599, 680..1033, 1169..1289		
GI Descrip.	(AC006264) unknown protein [Arabidopsis thaliana]		

Seq. No.	51298	Seq. ID	OJ991011_10.0419.C38
Gene No.	108665	Strand	+
Start	1	End	1297
Name	OJ991011_10.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	164	End	1288
GI	none	Score	122
Exons	164..223, 167..262, 181..309, 184..261, 305..601, 335..601, 351..602, 483..557, 677..1042, 677..721, 679..918, 770..994, 909..1013, 970..1035, 1132..1284, 1172..1288		

Seq. No.	51298	Seq. ID	OJ991011_10.0419.C38
Gene No.	108665	Strand	+
Start	1	End	1297
Name	OJ991011_10.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	167	End	1297
GI	none	Score	107
Exons	167..262, 184..240, 341..601, 351..602, 483..557, 677..859, 679..849, 878..1033, 899..1012, 1166..1297, 1171..1269		

Seq. No.	51298	Seq. ID	OJ991011_10.0419.C38
Gene No.	108665	Strand	+
Start	1	End	1297
Name	OJ991011_10.0419.C38.o1.gs	Method	GENSCAN
Start	185	End	1297
GI	none	Score	.82
Exons	185..261, 353..599, 680..1033, 1169..1297		

Seq. No.	51298	Seq. ID	OJ991011_10.0419.C38
Gene No.	108665	Strand	+
Start	1	End	1297
Name	OJ991011_10.0419.C38.o1.tc	Method	TBLASTX:Cress

Start	200	End	595
GI	none	Score	99
Exons	200..262, 202..270, 350..460, 351..593, 366..449, 485..595, 503..595		

Seq. No.	51298	Seq. ID	OJ991011_10.0419.C38
Gene No.	108665	Strand	+
Start	1	End	1297
Name	OJ991011_10.0419.C38.o1.gp	Method	AAT/GAP
Start	416	End	995
GI	43164_1.R1084	Score	819
Exons	416..599, 680..995		
GI Descrip.	'4803944/gb AAD29817.1 AC006264_25 5.0e-35 (AC006264) putative C2-domain protein (prosite: PD0C00380) [Arabidopsis thaliana]'		

Seq. No.	51299	Seq. ID	OJ991011_10.0419.C39
Gene No.	108666	Strand	+
Start	1	End	196
Name	OJ991011_10.0419.C39.o1.gp	Method	AAT/GAP
Start	1	End	196
GI	12843_1.R1084	Score	392
Exons	1..196		
GI Descrip.	'4803944/gb AAD29817.1 AC006264_25 3.0e-18 (AC006264) putative C2-domain protein (prosite: PD0C00380) [Arabidopsis thaliana]'		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
Gene No.	108667	Strand	+
Start	379	End	7130
Name	OJ991011_10.0419.C44.o1.gs	Method	GENSCAN
Start	379	End	3552
GI	none	Score	.65
Exons	379..935, 1153..2239, 2616..3105, 3245..3552		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
Gene No.	108667	Strand	+
Start	379	End	7130
Name	OJ991011_10.0419.C44.o1.np	Method	AAT/NAP
Start	2091	End	5228
GI	7489803	Score	3372
Exons	2091..5228		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi 3645899/gb AAC49502.1 (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
Gene No.	108667	Strand	+
Start	379	End	7130
Name	OJ991011_10.0419.C44.o2.gs	Method	GENSCAN
Start	3745	End	7130
GI	none	Score	.42
Exons	3745..4169, 4337..4559, 4740..4788, 6153..6308, 6351..6505, 6539..6983, 7027..7130		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
Gene No.	108668	Strand	-
Start	7270	End	7424
Name	OJ991011_10.0419.C44.o7.tm	Method	TBLASTX:Maize

Start 151
GI none
Exons 151..555, 204..440

End 555
Score 221

Seq. No. 51300 Seq. ID OJ991011_10.0419.C44
Gene No. 108668 Strand -
Start 7270 End 7424
Name OJ991011_10.0419.C44.o5.tm Method TBLASTX:Maize
Start 2342 End 2645
GI none Score 94
Exons 2342..2461, 2344..2457, 2458..2583, 2459..2584, 2508..2585,
2585..2635, 2586..2645

Seq. No. 51300 Seq. ID OJ991011_10.0419.C44
Gene No. 108668 Strand -
Start 7270 End 7424
Name OJ991011_10.0419.C44.o2.tw Method TBLASTX:Wheat
Start 2501 End 3077
GI none Score 97
Exons 2501..2584, 2503..2580, 2586..2753, 2591..2734, 2765..2791,
2765..2791, 2789..3076, 2793..3077

Seq. No. 51300 Seq. ID OJ991011_10.0419.C44
Gene No. 108668 Strand -
Start 7270 End 7424
Name OJ991011_10.0419.C44.o2.tm Method TBLASTX:Maize
Start 2645 End 3110
GI none Score 597
Exons 2645..3109, 2646..3110

Seq. No. 51300 Seq. ID OJ991011_10.0419.C44
Gene No. 108668 Strand -
Start 7270 End 7424
Name OJ991011_10.0419.C44.o3.ts Method TBLASTX:Soybean
Start 2700 End 3101
GI none Score 50
Exons 2700..2792, 2790..3101

Seq. No. 51300 Seq. ID OJ991011_10.0419.C44
Gene No. 108668 Strand -
Start 7270 End 7424
Name OJ991011_10.0419.C44.o4.tm Method TBLASTX:Maize
Start 3556 End 3861
GI none Score 438
Exons 3556..3861, 3568..3858, 3570..3860

Seq. No. 51300 Seq. ID OJ991011_10.0419.C44
Gene No. 108668 Strand -
Start 7270 End 7424
Name OJ991011_10.0419.C44.o1.ts Method TBLASTX:Soybean
Start 3594 End 4201
GI 5509260 Score 65
Exons 3594..3644, 3594..3809, 3595..3813, 3819..4196, 3820..4200,
3971..4201

GI Descrip. -

Seq. No. 51300 Seq. ID OJ991011_10.0419.C44

Gene No.	108668	Strand	-
Start	7270	End	7424
Name	OJ991011_10.0419.C44.o1.tw	Method	TBLASTX:Wheat
Start	3736	End	4188
GI	none	Score	85
Exons	3736..3810, 3841..4188, 3843..4187		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
Gene No.	108668	Strand	-
Start	7270	End	7424
Name	OJ991011_10.0419.C44.o2.tc	Method	TBLASTX:Cress
Start	3802	End	4083
GI	none	Score	202
Exons	3802..4083		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
Gene No.	108668	Strand	-
Start	7270	End	7424
Name	OJ991011_10.0419.C44.o3.tm	Method	TBLASTX:Maize
Start	3862	End	4329
GI	none	Score	485
Exons	3862..4212, 3862..4191, 3864..4208, 4188..4328, 4195..4329, 4200..4325, 4205..4327		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
Gene No.	108668	Strand	-
Start	7270	End	7424
Name	OJ991011_10.0419.C44.o6.tm	Method	TBLASTX:Maize
Start	4370	End	4553
GI	none	Score	253
Exons	4370..4552, 4371..4553		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
Gene No.	108668	Strand	-
Start	7270	End	7424
Name	OJ991011_10.0419.C44.o3.tw	Method	TBLASTX:Wheat
Start	4371	End	4787
GI	none	Score	91
Exons	4371..4523, 4551..4787		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
Gene No.	108668	Strand	-
Start	7270	End	7424
Name	OJ991011_10.0419.C44.o1.tm	Method	TBLASTX:Maize
Start	4554	End	5231
GI	none	Score	969
Exons	4554..5225, 4562..5080, 4935..5231		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
Gene No.	108668	Strand	-
Start	7270	End	7424
Name	OJ991011_10.0419.C44.o2.ts	Method	TBLASTX:Soybean
Start	4572	End	5213
GI	none	Score	297
Exons	4572..4970, 4781..4960, 4980..5213		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
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Gene No.	108668	Strand	-
Start	7270	End	7424
Name	OJ991011_10.0419.C44.o1.tc	Method	TBLASTX:Cress
Start	4752	End	5210
GI	none	Score	71
Exons	4752..4841, 4845..4979, 4965..5210		

Seq. No.	51300	Seq. ID	OJ991011_10.0419.C44
Gene No.	108668	Strand	-
Start	7270	End	7424
Name	OJ991011_10.0419.C44.o3.gs	Method	GENSCAN
Start	7270	End	7424
GI	none	Score	.93
Exons	7270..7424		

Seq. No.	51301	Seq. ID	OJ991011_10.0419.C45
Gene No.	108669	Strand	-
Start	1035	End	1590
Name	OJ991011_10.0419.C45.o1.gs	Method	GENSCAN
Start	1035	End	1590
GI	none	Score	.45
Exons	1035..1310, 1481..1590		

Seq. No.	51302	Seq. ID	OJ991011_10.0419.C46
Gene No.	108670	Strand	+
Start	30	End	2298
Name	OJ991011_10.0419.C46.o1.gs	Method	GENSCAN
Start	30	End	2298
GI	none	Score	.56
Exons	30..377, 927..1061, 1237..1353, 1601..1832, 1856..2298		

Seq. No.	51302	Seq. ID	OJ991011_10.0419.C46
Gene No.	108671	Strand	+
Start	3240	End	4325
Name	OJ991011_10.0419.C46.o2.gs	Method	GENSCAN
Start	3240	End	4325
GI	none	Score	.43
Exons	3240..3251, 3966..4325		

Seq. No.	51303	Seq. ID	OJ991011_10.0419.C47
Gene No.	108672	Strand	+
Start	1	End	695
Name	OJ991011_10.0419.C47.o1.np	Method	AAT/NAP
Start	1	End	695
GI	4680186	Score	109
Exons	1..114, 516..695		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51303	Seq. ID	OJ991011_10.0419.C47
Gene No.	108673	Strand	-
Start	1172	End	1737
Name	OJ991011_10.0419.C47.o1.gs	Method	GENSCAN
Start	1172	End	1737
GI	none	Score	.67
Exons	1172..1297, 1581..1737		

Seq. No.	51304	Seq. ID	OJ991011_10.0419.C48
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Gene No.	108674	Strand	+
Start	517	End	614
Name	OJ991011_10.0419.C48.o1.gs	Method	GENSCAN
Start	517	End	614
GI	none	Score	.41
Exons	517..532, 583..614		

Seq. No.	51305	Seq. ID	OJ991011_10.0419.C49
Gene No.	108675	Strand	+
Start	582	End	1310
Name	OJ991011_10.0419.C49.o1.np	Method	AAT/NAP
Start	582	End	1310
GI	5042463	Score	96
Exons	582..752, 1291..1310		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	51306	Seq. ID	OJ991011_10.0419.C50
Gene No.	108676	Strand	-
Start	1	End	764
Name	OJ991011_10.0419.C50.o1.np	Method	AAT/NAP
Start	1	End	764
GI	4416302	Score	782
Exons	1..764		
GI Descrip.	(AF105716) copia-type pol polyprotein [Zea mays]		

Seq. No.	51306	Seq. ID	OJ991011_10.0419.C50
Gene No.	108676	Strand	-
Start	1	End	764
Name	OJ991011_10.0419.C50.o1.tm	Method	TBLASTX:Maize
Start	1	End	483
GI	none	Score	277
Exons	1..483, 2..475		

Seq. No.	51306	Seq. ID	OJ991011_10.0419.C50
Gene No.	108676	Strand	-
Start	1	End	764
Name	OJ991011_10.0419.C50.o2.ts	Method	TBLASTX:Soybean
Start	58	End	282
GI	none	Score	87
Exons	58..282, 119..277		

Seq. No.	51306	Seq. ID	OJ991011_10.0419.C50
Gene No.	108676	Strand	-
Start	1	End	764
Name	OJ991011_10.0419.C50.o1.tw	Method	TBLASTX:Wheat
Start	229	End	660
GI	none	Score	51
Exons	229..486, 347..475, 511..660, 521..652		

Seq. No.	51306	Seq. ID	OJ991011_10.0419.C50
Gene No.	108676	Strand	-
Start	1	End	764
Name	OJ991011_10.0419.C50.o1.ts	Method	TBLASTX:Soybean
Start	289	End	699
GI	none	Score	41
Exons	289..699, 299..370, 413..475, 536..682		

Seq. No. 51306
Gene No. 108676
Start 1
Name OJ991011_10.0419.C50.o1.gs
Start 341
GI none
Exons 341..564

Seq. ID OJ991011_10.0419.C50
Strand -
End 764
Method GENSCAN
End 564
Score .46

Seq. No. 51306
Gene No. 108676
Start 1
Name OJ991011_10.0419.C50.o2.tm
Start 505
GI none
Exons 505..762, 550..759

Seq. ID OJ991011_10.0419.C50
Strand -
End 764
Method TBLASTX:Maize
End 762
Score 73

Seq. No. 51307
Gene No. 108677
Start 216
Name OJ991011_10.0419.C51.o1.gs
Start 216
GI none
Exons 216..339

Seq. ID OJ991011_10.0419.C51
Strand -
End 339
Method GENSCAN
End 339
Score .49

Seq. No. 51308
Gene No. 108678
Start 3193
Name OJ991011_10.0419.C53.o2.gs
Start 3193
GI none
Exons 3193..3280, 3368..3551, 3633..3960, 4339..4680, 4837..4896, 4967..5080, 5159..5206, 5260..5838

Seq. ID OJ991011_10.0419.C53
Strand +
End 5838
Method GENSCAN
End 5838
Score .76

Seq. No. 51308
Gene No. 108679
Start 100
Name OJ991011_10.0419.C53.o1.gp
Start 100
GI 101153_1.R1084
Exons 100..314

Seq. ID OJ991011_10.0419.C53
Strand -
End 314
Method AAT/GAP
End 314
Score 301

GI Descrip. '5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'

Seq. No. 51308
Gene No. 108680
Start 6194
Name OJ991011_10.0419.C53.o2.ts
Start 6183
GI none
Exons 6183..6224, 6188..6433, 6261..6431

Seq. ID OJ991011_10.0419.C53
Strand -
End 7738
Method TBLASTX:Soybean
End 6433
Score 44

Seq. No. 51308
Gene No. 108680
Start 6194
Name OJ991011_10.0419.C53.o1.np
Start 6194
GI 4544372

Seq. ID OJ991011_10.0419.C53
Strand -
End 7738
Method AAT/NAP
End 7385
Score 588

Exons 6194..7385
 GI Descrip. (AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No.	51308	Seq. ID	OJ991011_10.0419.C53
Gene No.	108680	Strand	-
Start	6194	End	7738
Name	OJ991011_10.0419.C53.o1.tw	Method	TBLASTX:Wheat
Start	6209	End	6616
GI	none	Score	77
Exons	6209..6616, 6210..6416		

Seq. No.	51308	Seq. ID	OJ991011_10.0419.C53
Gene No.	108680	Strand	-
Start	6194	End	7738
Name	OJ991011_10.0419.C53.o3.gs	Method	GENSCAN
Start	6371	End	7738
GI	none	Score	.76
Exons	6371..7188, 7261..7399, 7454..7738		

Seq. No.	51308	Seq. ID	OJ991011_10.0419.C53
Gene No.	108680	Strand	-
Start	6194	End	7738
Name	OJ991011_10.0419.C53.o1.ts	Method	TBLASTX:Soybean
Start	6776	End	7177
GI	none	Score	63
Exons	6776..7177, 6962..7069		

Seq. No.	51308	Seq. ID	OJ991011_10.0419.C53
Gene No.	108680	Strand	-
Start	6194	End	7738
Name	OJ991011_10.0419.C53.o1.tm	Method	TBLASTX:Maize
Start	6797	End	7162
GI	none	Score	83
Exons	6797..7021, 7019..7162		

Seq. No.	51308	Seq. ID	OJ991011_10.0419.C53
Gene No.	108680	Strand	-
Start	6194	End	7738
Name	OJ991011_10.0419.C53.o2.tw	Method	TBLASTX:Wheat
Start	6953	End	7333
GI	none	Score	164
Exons	6953..7000, 7031..7333		

Seq. No.	51309	Seq. ID	OJ991011_10.0419.C54
Gene No.	108681	Strand	-
Start	1	End	1419
Name	OJ991011_10.0419.C54.o1.np	Method	AAT/NAP
Start	1	End	1419
GI	7248394	Score	1030
Exons	1..450, 718..1419		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	51309	Seq. ID	OJ991011_10.0419.C54
Gene No.	108681	Strand	-
Start	1	End	1419
Name	OJ991011_10.0419.C54.o1.tm	Method	TBLASTX:Maize
Start	6	End	313
GI	none	Score	137
Exons	6..188, 37..189, 186..311, 188..313, 194..313		

Seq. No.	51309	Seq. ID	OJ991011_10.0419.C54
Gene No.	108681	Strand	-
Start	1	End	1419
Name	OJ991011_10.0419.C54.o1.tw	Method	TBLASTX:Wheat
Start	186	End	586
GI	none	Score	319
Exons	186..527, 197..535, 530..586, 540..581		

Seq. No.	51309	Seq. ID	OJ991011_10.0419.C54
Gene No.	108681	Strand	-
Start	1	End	1419
Name	OJ991011_10.0419.C54.o2.tm	Method	TBLASTX:Maize
Start	314	End	532
GI	none	Score	199
Exons	314..532, 315..527, 332..532		

Seq. No.	51309	Seq. ID	OJ991011_10.0419.C54
Gene No.	108681	Strand	-
Start	1	End	1419
Name	OJ991011_10.0419.C54.o1.ts	Method	TBLASTX:Soybean
Start	383	End	736
GI	none	Score	109
Exons	383..517, 524..736		

Seq. No.	51309	Seq. ID	OJ991011_10.0419.C54
Gene No.	108681	Strand	-
Start	1	End	1419
Name	OJ991011_10.0419.C54.o1.gs	Method	GENSCAN
Start	572	End	1172
GI	none	Score	.82
Exons	572..998, 1114..1172		

Seq. No.	51310	Seq. ID	OJ991021_13.0419.C1
Gene No.	108682	Strand	+
Start	513	End	1023
Name	OJ991021_13.0419.C1.o1.gs	Method	GENSCAN
Start	513	End	1023
GI	none	Score	.59
Exons	513..779, 871..1023		

Seq. No.	51311	Seq. ID	OJ991021_13.0419.C2
Gene No.	108683	Strand	+
Start	2203	End	2527
Name	OJ991021_13.0419.C2.o2.gp	Method	AAT/GAP
Start	2203	End	2527
GI	uC-osflM2020116f05a1	Score	650
Exons	2203..2527		
GI Descrip.	'5852172/emb CAB55410.1 4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]'		

Seq. No.	51311	Seq. ID	OJ991021_13.0419.C2
Gene No.	108684	Strand	-
Start	1	End	1596
Name	OJ991021_13.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	1596
GI	5306242	Score	139
Exons	1..211, 1554..1596		
GI Descrip.	(AC006438) unknown protein [Arabidopsis thaliana]		

Seq. No.	51311	Seq. ID	OJ991021_13.0419.C2
Gene No.	108684	Strand	-
Start	1	End	1596
Name	OJ991021_13.0419.C2.o1.gs	Method	GENSCAN
Start	57	End	269
GI	none	Score	.53
Exons	57..269		

Seq. No.	51311	Seq. ID	OJ991021_13.0419.C2
Gene No.	108684	Strand	-
Start	1	End	1596
Name	OJ991021_13.0419.C2.o1.gp	Method	AAT/GAP
Start	73	End	455
GI	none	Score	726
Exons	73..455		

Seq. No.	51311	Seq. ID	OJ991021_13.0419.C2
Gene No.	108685	Strand	-
Start	1601	End	5571
Name	OJ991021_13.0419.C2.o3.tm	Method	TBLASTX:Maize
Start	9	End	225
GI	none	Score	160
Exons	9..167, 37..225		

Seq. No.	51311	Seq. ID	OJ991021_13.0419.C2
Gene No.	108685	Strand	-
Start	1601	End	5571
Name	OJ991021_13.0419.C2.o2.np	Method	AAT/NAP
Start	1601	End	5562
GI	3075399	Score	444
Exons	1601..1704, 2828..3271, 4040..4205, 4343..4570, 4741..4916, 5458..5562		
GI Descrip.	(AC004484) putative SF16 protein {Helianthus annuus} [Arabidopsis thaliana]		

Seq. No.	51311	Seq. ID	OJ991021_13.0419.C2
Gene No.	108685	Strand	-
Start	1601	End	5571
Name	OJ991021_13.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	2591	End	3215
GI	none	Score	37
Exons	2591..2617, 2614..2679, 2618..2680, 2834..2887, 2835..2903, 2912..3214, 2920..3213, 2937..3215		

Seq. No.	51311	Seq. ID	OJ991021_13.0419.C2
Gene No.	108685	Strand	-
Start	1601	End	5571

Name	OJ991021_13.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	2895	End	3310
GI	none	Score	291
Exons	2895..2948, 2897..3310, 2897..3286, 3045..3287, 3157..3309		

Seq. No.	51311	Seq. ID	OJ991021_13.0419.C2
Gene No.	108685	Strand	-
Start	1601	End	5571
Name	OJ991021_13.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	3216	End	5571
GI	none	Score	70
Exons	3216..3266, 3216..3266, 3217..3267, 3217..3267, 4096..4215, 4097..4216, 4341..4547, 4342..4566, 4343..4567, 4718..4786, 4734..4904, 4740..4802, 4741..4905, 4747..4887, 5482..5568, 5513..5569, 5518..5571		

Seq. No.	51311	Seq. ID	OJ991021_13.0419.C2
Gene No.	108685	Strand	-
Start	1601	End	5571
Name	OJ991021_13.0419.C2.o3.gp	Method	AAT/GAP
Start	4060	End	4805
GI	2427772	Score	727
Exons	4060..4205, 4343..4570, 4741..4805		
GI Descrip.	3075399 3.0e-16 (AC004484) SF16-like protein [Arabidopsis thaliana]		

Seq. No.	51312	Seq. ID	OJ991021_13.0419.C3
Gene No.	108686	Strand	+
Start	2246	End	10231
Name	OJ991021_13.0419.C3.o1.gs	Method	GENSCAN
Start	2246	End	10231
GI	none	Score	.7
Exons	2246..2353, 3220..3225, 3650..3811, 4763..4925, 5012..5150, 5243..5519, 5625..5823, 5953..6274, 7283..7361, 9544..9647, 10132..10231		

Seq. No.	51312	Seq. ID	OJ991021_13.0419.C3
Gene No.	108686	Strand	+
Start	2246	End	10231
Name	OJ991021_13.0419.C3.o1.gp	Method	AAT/GAP
Start	3596	End	6489
GI	1190_2.R1084	Score	2939
Exons	3596..3811, 4763..4925, 5012..5150, 5243..5519, 5625..5823, 5953..6489		
GI Descrip.	'1125691 emb CAA63965 0.0e+00 (X94301) DnaJ protein [Solanum tuberosum]'		

Seq. No.	51312	Seq. ID	OJ991021_13.0419.C3
Gene No.	108686	Strand	+
Start	2246	End	10231
Name	OJ991021_13.0419.C3.o1.np	Method	AAT/NAP
Start	3662	End	6275
GI	1169382	Score	1789
Exons	3662..3811, 4763..4927, 5011..5150, 5243..5519, 5625..5823, 5953..6275		
GI Descrip.	DNAJ PROTEIN HOMOLOG 2 gi 542196 pir S42031 LDJ2 protein - leek gi 454303 emb CAA54720 (X77632) LDJ2 [Allium porrum]		

Seq. No. 51312
Gene No. 108687
Start 10537
Name OJ991021_13.0419.C3.o2.gp
Start 10537
GI 5607599
Exons 10537..10850

Seq. ID OJ991021_13.0419.C3
Strand -
End 10850
Method AAT/GAP
End 10850
Score 597

Seq. No. 51312
Gene No. 108688
Start 11178
Name OJ991021_13.0419.C3.o1.tm
Start 3558
GI none
Exons 3558..3599, 3559..3597, 3588..3626, 3589..3621, 3659..3826, 3661..3825, 4746..4916, 4760..4894, 4760..4918, 4762..4917, 5012..5149, 5013..5150, 5047..5151, 5050..5154, 5243..5518, 5246..5416, 5286..5420, 5469..5519, 5479..5520, 5618..5821, 5623..5862, 5625..5822, 5979..6140, 5981..6100, 5981..6169, 5982..6170, 6242..6283

Seq. ID OJ991021_13.0419.C3
Strand -
End 11468
Method TBLASTX:Maize
End 6283
Score 45

Seq. No. 51312
Gene No. 108688
Start 11178
Name OJ991021_13.0419.C3.o2.tw
Start 3659
GI none
Exons 3659..3826, 3659..3748, 3661..3825, 3867..3899, 4746..4859, 4760..4870, 4760..4870, 4865..4894

Seq. ID OJ991021_13.0419.C3
Strand -
End 11468
Method TBLASTX:Wheat
End 4894
Score 259

Seq. No. 51312
Gene No. 108688
Start 11178
Name OJ991021_13.0419.C3.o1.ts
Start 3673
GI none
Exons 3673..3717, 3674..3718, 3719..3769, 3748..3825, 3749..3826, 4743..4859, 4760..4861, 4760..4876, 4868..4894, 4877..4921, 5000..5152, 5010..5150, 5046..5153, 5047..5151, 5243..5305, 5245..5406, 5246..5356, 5286..5420, 5332..5409, 5414..5518, 5469..5519, 5479..5526, 5618..5707, 5625..5696, 5678..5821, 5684..5773, 5685..5822, 5689..5826, 5913..6170, 5951..6169, 6242..6277

Seq. ID OJ991021_13.0419.C3
Strand -
End 11468
Method TBLASTX:Soybean
End 6277
Score 71

Seq. No. 51312
Gene No. 108688
Start 11178
Name OJ991021_13.0419.C3.o1.tc
Start 3679
GI none
Exons 3679..3825, 3680..3826, 4760..4894, 4760..4918, 4761..4910, 4768..4911, 4900..4926, 5006..5143, 5046..5153, 5047..5151, 5240..5416, 5241..5393, 5245..5397, 5246..5518, 5286..5420, 5469..5519, 5618..5821, 5621..5773, 5625..5822, 5910..6170, 5951..6094

Seq. ID OJ991021_13.0419.C3
Strand -
End 11468
Method TBLASTX:Cress
End 6170
Score 209

Seq. No.	51312	Seq. ID	OJ991021_13.0419.C3
Gene No.	108688	Strand	-
Start	11178	End	11468
Name	OJ991021_13.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	5036	End	6170
GI	none	Score	90
Exons	5036..5113, 5043..5150, 5046..5150, 5047..5151, 5050..5154, 5243..5398, 5243..5356, 5286..5420, 5316..5402, 5414..5518, 5469..5519, 5479..5535, 5618..5821, 5621..5773, 5623..5829, 5625..5822, 5913..6170, 5951..6112, 5958..6140		

Seq. No.	51312	Seq. ID	OJ991021_13.0419.C3
Gene No.	108688	Strand	-
Start	11178	End	11468
Name	OJ991021_13.0419.C3.o3.gp	Method	AAT/GAP
Start	11178	End	11468
GI	62293_1.R1084	Score	517
Exons	11178..11468		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108689	Strand	+
Start	2436	End	8557
Name	OJ991021_13.0419.C4.o1.np	Method	AAT/NAP
Start	2436	End	8521
GI	5922631	Score	6713
Exons	2436..2560, 2819..3063, 3322..3524, 3570..4141, 4184..4335, 4462..5387, 5994..8521		
GI Descrip.	(AP000492) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativa] gi 6016864 dbj BAA85207.1 (AP000570) ESTs C26347(C12145),AU078074(C12145) correspond to a region of the predicted gene.; Similar to prpol; Zea mays retrotransposon Cinfu1-1. (AF049110) [Oryza sativ		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108689	Strand	+
Start	2436	End	8557
Name	OJ991021_13.0419.C4.o2.gs	Method	GENSCAN
Start	2436	End	8557
GI	none	Score	.69
Exons	2436..3102, 3307..4335, 4462..4676, 4767..4859, 4865..5379, 5476..5749, 5957..6130, 6440..6546, 6619..7615, 7700..8557		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108690	Strand	+
Start	12852	End	13262
Name	OJ991021_13.0419.C4.o2.gp	Method	AAT/GAP
Start	12852	End	13262
GI	5816562	Score	634
Exons	12852..13262		
GI Descrip.	6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10		

Seq. No. 51313
 Gene No. 108691
 Start 14099
 Name OJ991021_13.0419.C4.o5.gs
 Start 14099
 GI none
 Exons 14099..14203, 14497..14559

Seq. ID OJ991021_13.0419.C4
 Strand +
 End 14559
 Method GENSCAN
 End 14559
 Score .6

Seq. No. 51313
 Gene No. 108692
 Start 15860
 Name OJ991021_13.0419.C4.o7.gs
 Start 15860
 GI none
 Exons 15860..16132

Seq. ID OJ991021_13.0419.C4
 Strand +
 End 16132
 Method GENSCAN
 End 16132
 Score .99

Seq. No. 51313
 Gene No. 108693
 Start 731
 Name OJ991021_13.0419.C4.o1.gs
 Start 731
 GI none
 Exons 731..1119, 1486..1604, 1845..1894

Seq. ID OJ991021_13.0419.C4
 Strand -
 End 1894
 Method GENSCAN
 End 1894
 Score .8

Seq. No. 51313
 Gene No. 108694
 Start 1975
 Name OJ991021_13.0419.C4.o1.gp
 Start 1975
 GI 5816562
 Exons 1975..2389, 2711..2734
 GI Descrip. 6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10

Seq. ID OJ991021_13.0419.C4
 Strand -
 End 2734
 Method AAT/GAP
 End 2734
 Score 646

Seq. No. 51313
 Gene No. 108695
 Start 8863
 Name OJ991021_13.0419.C4.o3.gs
 Start 8863
 GI none
 Exons 8863..9317, 9411..9515, 9587..9776, 9851..10050, 10116..10474, 10551..10869, 10926..11814

Seq. ID OJ991021_13.0419.C4
 Strand -
 End 11814
 Method GENSCAN
 End 11814
 Score .8

Seq. No. 51313
 Gene No. 108695
 Start 8863
 Name OJ991021_13.0419.C4.o2.np
 Start 8890
 GI 6691716
 Exons 8890..9337, 9411..9531, 9681..9776, 9851..10038, 10116..10295, 10374..10474, 10551..10728, 10926..11814
 GI Descrip. (AP000492) hypothetical protein [Oryza sativa]
 gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]

Seq. ID OJ991021_13.0419.C4
 Strand -
 End 11814
 Method AAT/NAP
 End 11814
 Score 2462

Seq. No. 51313
 Gene No. 108696

Seq. ID OJ991021_13.0419.C4
 Strand -

Start 13214
 Name OJ991021_13.0419.C4.o7.tw
 Start 3746
 GI none
 Exons 3746..4015, 3747..4148

End 15683
 Method TBLASTX:Wheat
 End 4148
 Score 283

Seq. No. 51313
 Gene No. 108696
 Start 13214
 Name OJ991021_13.0419.C4.o6.tw
 Start 4728
 GI none
 Exons 4728..4856, 4948..5184, 4952..5182, 5231..5404

Seq. ID OJ991021_13.0419.C4
 Strand -
 End 15683
 Method TBLASTX:Wheat
 End 5404
 Score 106

Seq. No. 51313
 Gene No. 108696
 Start 13214
 Name OJ991021_13.0419.C4.o7.tm
 Start 5035
 GI none
 Exons 5035..5181, 5036..5212

Seq. ID OJ991021_13.0419.C4
 Strand -
 End 15683
 Method TBLASTX:Maize
 End 5212
 Score 187

Seq. No. 51313
 Gene No. 108696
 Start 13214
 Name OJ991021_13.0419.C4.o1.tw
 Start 5404
 GI none
 Exons 5404..5859, 5405..5860

Seq. ID OJ991021_13.0419.C4
 Strand -
 End 15683
 Method TBLASTX:Wheat
 End 5860
 Score 496

Seq. No. 51313
 Gene No. 108696
 Start 13214
 Name OJ991021_13.0419.C4.o3.ts
 Start 5444
 GI none
 Exons 5444..5668, 5675..5809

Seq. ID OJ991021_13.0419.C4
 Strand -
 End 15683
 Method TBLASTX:Soybean
 End 5809
 Score 138

Seq. No. 51313
 Gene No. 108696
 Start 13214
 Name OJ991021_13.0419.C4.o2.tm
 Start 5534
 GI none
 Exons 5534..5890, 5575..5868

Seq. ID OJ991021_13.0419.C4
 Strand -
 End 15683
 Method TBLASTX:Maize
 End 5890
 Score 350

Seq. No. 51313
 Gene No. 108696
 Start 13214
 Name OJ991021_13.0419.C4.o3.tm
 Start 5918
 GI none
 Exons 5918..6301, 5927..6253, 6022..6300

Seq. ID OJ991021_13.0419.C4
 Strand -
 End 15683
 Method TBLASTX:Maize
 End 6301
 Score 312

Seq. No. 51313
 Gene No. 108696
 Start 13214

Seq. ID OJ991021_13.0419.C4
 Strand -
 End 15683

Name	OJ991021_13.0419.C4.o3.tw	Method	TBLASTX:Wheat
Start	5975	End	6399
GI	none	Score	409
Exons	5975..6394, 6019..6399, 6076..6396		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	6053	End	6445
GI	none	Score	269
Exons	6053..6409, 6070..6213, 6086..6445		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o9.tw	Method	TBLASTX:Wheat
Start	6470	End	6688
GI	none	Score	202
Exons	6470..6688		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	6680	End	7068
GI	none	Score	264
Exons	6680..7066, 6688..6783, 6820..7068		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o4.tw	Method	TBLASTX:Wheat
Start	6689	End	7111
GI	none	Score	404
Exons	6689..7111, 6694..7035		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o6.tm	Method	TBLASTX:Maize
Start	6742	End	7015
GI	none	Score	127
Exons	6742..6792, 6743..6913, 6770..6898, 6917..7015, 6949..7014		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o10.tw	Method	TBLASTX:Wheat
Start	7127	End	7426
GI	none	Score	139
Exons	7127..7261, 7129..7260, 7315..7383, 7328..7426		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o1.tm	Method	TBLASTX:Maize

Start	7423	End	7786
GI	none	Score	424
Exons	7423..7746, 7424..7747, 7739..7786		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o5.tw	Method	TBLASTX:Wheat
Start	7427	End	7818
GI	none	Score	395
Exons	7427..7588, 7429..7740, 7430..7816, 7625..7798, 7771..7818		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o5.tm	Method	TBLASTX:Maize
Start	7888	End	8161
GI	none	Score	92
Exons	7888..7986, 7889..7987, 7978..8052, 7982..8065, 8075..8161		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	7937	End	8545
GI	none	Score	361
Exons	7937..8389, 7954..8040, 8081..8110, 8092..8220, 8414..8545		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o4.tm	Method	TBLASTX:Maize
Start	8243	End	8506
GI	none	Score	164
Exons	8243..8425, 8365..8424, 8404..8505, 8408..8506		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o8.tw	Method	TBLASTX:Wheat
Start	11404	End	11694
GI	none	Score	54
Exons	11404..11694, 11441..11554		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o3.np	Method	AAT/NAP
Start	13147	End	15551
GI	118124	Score	91
Exons	13147..13184, 14940..15176, 15463..15551		
GI Descrip.	CYSTEINE PROTEINASE EP-B 4 PRECURSOR gi 82386 pir JQ1110 cysteine proteinase (EC 3.4.22.-) EP-B 4 precursor - barley gi 1146118 (U19384) cysteine proteinase EPB2 precursor [Hordeum vulgare]		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
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Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o4.gs	Method	GENSCAN
Start	13214	End	13402
GI	none	Score	.92
Exons	13214..13402		

Seq. No.	51313	Seq. ID	OJ991021_13.0419.C4
Gene No.	108696	Strand	-
Start	13214	End	15683
Name	OJ991021_13.0419.C4.o6.gs	Method	GENSCAN
Start	14843	End	15683
GI	none	Score	1
Exons	14843..15237, 15395..15683		

Seq. No.	51314	Seq. ID	OJ991021_13.0419.C5
Gene No.	108697	Strand	+
Start	1	End	451
Name	OJ991021_13.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	451
GI	4510378	Score	260
Exons	1..56, 90..169, 215..451		
GI Descrip.	(AC007017) putative RING zinc finger protein [Arabidopsis thaliana]		

Seq. No.	51314	Seq. ID	OJ991021_13.0419.C5
Gene No.	108698	Strand	+
Start	3329	End	5625
Name	OJ991021_13.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	101	End	3572
GI	none	Score	50
Exons	101..160, 232..420, 233..424, 3513..3572		

Seq. No.	51314	Seq. ID	OJ991021_13.0419.C5
Gene No.	108698	Strand	+
Start	3329	End	5625
Name	OJ991021_13.0419.C5.o1.gp	Method	AAT/GAP
Start	3221	End	5606
GI	54546_1.R1084	Score	948
Exons	3221..3431, 3533..3634, 5204..5361, 5518..5606		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51314	Seq. ID	OJ991021_13.0419.C5
Gene No.	108698	Strand	+
Start	3329	End	5625
Name	OJ991021_13.0419.C5.o2.gs	Method	GENSCAN
Start	3329	End	5625
GI	none	Score	.65
Exons	3329..3431, 3491..3634, 5204..5361, 5518..5625		

Seq. No.	51314	Seq. ID	OJ991021_13.0419.C5
Gene No.	108698	Strand	+
Start	3329	End	5625
Name	OJ991021_13.0419.C5.o2.np	Method	AAT/NAP
Start	3341	End	5622
GI	6671934	Score	339

Exons 3341..3431, 3533..3634, 5204..5361, 5518..5622
GI Descrip. (AC016795) unknown protein [Arabidopsis thaliana]

Seq. No. 51314 Seq. ID OJ991021_13.0419.C5
Gene No. 108698 Strand +
Start 3329 End 5625
Name OJ991021_13.0419.C5.o1.tm Method TBLASTX:Maize
Start 3413 End 5607
GI none Score 38
Exons 3413..3436, 3541..3639, 3543..3638, 5202..5360, 5203..5367,
5514..5600, 5518..5607

Seq. No. 51314 Seq. ID OJ991021_13.0419.C5
Gene No. 108698 Strand +
Start 3329 End 5625
Name OJ991021_13.0419.C5.o1.tw Method TBLASTX:Wheat
Start 3535 End 5571
GI none Score 55
Exons 3535..3588, 3535..3600, 3579..3632, 3579..3638, 3580..3639,
5202..5360, 5202..5360, 5203..5367, 5203..5361, 5204..5362,
5518..5571

Seq. No. 51315 Seq. ID OJ991021_13.0419.C6
Gene No. 108699 Strand +
Start 1 End 5210
Name OJ991021_13.0419.C6.o1.np Method AAT/NAP
Start 1 End 4809
GI 6119519 Score 144
Exons 1..183, 765..857, 998..1075, 1368..1563, 2302..2576, 2715..2810,
3145..3229, 3314..3767, 4774..4809
GI Descrip. (AC011560) hypothetical protein [Arabidopsis thaliana]

Seq. No. 51315 Seq. ID OJ991021_13.0419.C6
Gene No. 108699 Strand +
Start 1 End 5210
Name OJ991021_13.0419.C6.o2.np Method AAT/NAP
Start 1 End 5210
GI 6119519 Score 146
Exons 1..183, 765..857, 998..1075, 1368..1563, 2302..2576, 2715..2810,
3145..3229, 3314..3843, 3935..3982, 5028..5210
GI Descrip. (AC011560) hypothetical protein [Arabidopsis thaliana]

Seq. No. 51315 Seq. ID OJ991021_13.0419.C6
Gene No. 108699 Strand +
Start 1 End 5210
Name OJ991021_13.0419.C6.o1.gs Method GENSCAN
Start 781 End 5074
GI none Score .87
Exons 781..818, 1364..1532, 2289..2576, 2682..2798, 3145..3843,
3935..4422, 4984..5074

Seq. No. 51315 Seq. ID OJ991021_13.0419.C6
Gene No. 108699 Strand +
Start 1 End 5210
Name OJ991021_13.0419.C6.o1.tm Method TBLASTX:Maize
Start 1364 End 2577
GI none Score 131

Exons 1364..1540, 1365..1535, 2299..2466, 2301..2438, 2407..2577,
2436..2576, 2437..2577

Seq. No.	51316	Seq. ID	OJ991021_13.0419.C7
Gene No.	108700	Strand	+
Start	1	End	1315
Name	OJ991021_13.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	1315
GI	6119519	Score	283
Exons	1..1315		
GI Descrip.	(AC011560) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51316	Seq. ID	OJ991021_13.0419.C7
Gene No.	108701	Strand	-
Start	229	End	1693
Name	OJ991021_13.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	177	End	1693
GI	none	Score	60
Exons	177..311, 193..345, 252..338, 265..387, 280..399, 296..346, 301..399, 301..408, 301..399, 307..429, 319..441, 324..392, 325..441, 328..447, 364..468, 364..462, 366..398, 367..468, 370..468, 378..452, 379..483, 379..516, 391..534, 412..555, 412..606, 466..489, 499..561, 520..561, 520..558, 520..561, 556..612, 556..606, 556..672, 556..609, 556..663, 562..666, 568..753, 571..648, 610..651, 616..699, 661..705, 709..840, 709..837, 717..848, 844..918, 923..1042, 931..1026, 1009..1086, 1010..1075, 1072..1206, 1078..1203, 1079..1210, 1146..1211, 1206..1319, 1207..1320, 1214..1342, 1412..1444, 1499..1555, 1511..1582, 1540..1590, 1544..1591, 1545..1589, 1628..1690, 1661..1693		

Seq. No.	51316	Seq. ID	OJ991021_13.0419.C7
Gene No.	108701	Strand	-
Start	229	End	1693
Name	OJ991021_13.0419.C7.o1.gs	Method	GENSCAN
Start	229	End	1079
GI	none	Score	.98
Exons	229..986, 1037..1079		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108702	Strand	+
Start	20	End	354
Name	OJ991021_13.0419.C8.o1.gp	Method	AAT/GAP
Start	20	End	354
GI	2443140	Score	657
Exons	20..354		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108703	Strand	+
Start	686	End	3838
Name	OJ991021_13.0419.C8.o1.gs	Method	GENSCAN
Start	686	End	3676
GI	none	Score	.98
Exons	686..1547, 1991..2134, 2256..2408, 2532..2647, 2915..3082, 3195..3419, 3545..3676		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
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Gene No. 108703 Strand +
 Start 686 End 3838
 Name OJ991021_13.0419.C8.o1.np Method AAT/NAP
 Start 686 End 3838
 GI 7428007 Score 2236
 Exons 686..1547, 1991..2134, 2256..2408, 2532..2647, 2915..3082,
 3195..3419, 3545..3658, 3766..3838
 GI Descrip. calcium-dependent protein kinase (EC 2.7.1.-) - maize (strain
 W64A) gi|3320104|emb|CAA07481.1| (AJ007366) calcium-dependent
 protein kinase [Zea mays]

Seq. No. 51317 Seq. ID OJ991021_13.0419.C8
 Gene No. 108703 Strand +
 Start 686 End 3838
 Name OJ991021_13.0419.C8.o2.gp Method AAT/GAP
 Start 1349 End 2310
 GI LIB3434-043-P1-K1-E11 Score 660
 Exons 1349..1547, 1991..2133, 2254..2310
 GI Descrip. '3320104/emb|CAA07481| 6.0e-56 (AJ007366) calcium-dependent
 protein kinase [Zea mays]'

Seq. No. 51317 Seq. ID OJ991021_13.0419.C8
 Gene No. 108703 Strand +
 Start 686 End 3838
 Name OJ991021_13.0419.C8.o3.gp Method AAT/GAP
 Start 3265 End 3621
 GI LIB3433-044-P1-K1-F12 Score 610
 Exons 3265..3621
 GI Descrip. '3320104/emb|CAA07481| 5.0e-14 (AJ007366) calcium-dependent
 protein kinase [Zea mays]'

Seq. No. 51317 Seq. ID OJ991021_13.0419.C8
 Gene No. 108704 Strand -
 Start 5328 End 7903
 Name OJ991021_13.0419.C8.o1.tc Method TBLASTX:Cress
 Start 686 End 3627
 GI none Score 52
 Exons 686..712, 715..744, 716..766, 871..903, 872..898, 1019..1561,
 1105..1563, 1980..2132, 1986..2132, 1987..2133, 2006..2137,
 2252..2407, 2254..2394, 2264..2413, 2534..2650, 2534..2644,
 2536..2652, 2906..3079, 2912..3082, 2914..3081, 3194..3367,
 3195..3419, 3544..3627, 3545..3589

Seq. No. 51317 Seq. ID OJ991021_13.0419.C8
 Gene No. 108704 Strand -
 Start 5328 End 7903
 Name OJ991021_13.0419.C8.o2.ts Method TBLASTX:Soybean
 Start 1046 End 3604
 GI none Score 625
 Exons 1046..1561, 1105..1548, 1980..2141, 1987..2133, 2252..2407,
 2263..2403, 2534..2650, 2534..2650, 2554..2652, 2912..3082,
 2914..3063, 3177..3242, 3188..3331, 3195..3419, 3545..3604

Seq. No. 51317 Seq. ID OJ991021_13.0419.C8
 Gene No. 108704 Strand -
 Start 5328 End 7903
 Name OJ991021_13.0419.C8.o2.tm Method TBLASTX:Maize

Start	1078	End	1552
GI	none	Score	154
Exons	1078..1194, 1079..1552, 1105..1548		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-
Start	5328	End	7903
Name	OJ991021_13.0419.C8.o3.tw	Method	TBLASTX:Wheat
Start	1228	End	1498
GI	none	Score	373
Exons	1228..1497, 1229..1498		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-
Start	5328	End	7903
Name	OJ991021_13.0419.C8.o4.tw	Method	TBLASTX:Wheat
Start	1505	End	2407
GI	none	Score	80
Exons	1505..1561, 1507..1551, 1980..2132, 1987..2133, 2252..2407, 2254..2406		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-
Start	5328	End	7903
Name	OJ991021_13.0419.C8.o4.tm	Method	TBLASTX:Maize
Start	1983	End	2407
GI	none	Score	233
Exons	1983..2132, 1987..2133, 1990..2148, 2252..2407, 2254..2406		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-
Start	5328	End	7903
Name	OJ991021_13.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	2565	End	3407
GI	none	Score	123
Exons	2565..2648, 2572..2652, 2573..2650, 2912..3082, 2914..3081, 2925..3083, 2965..3084, 3194..3373, 3195..3407, 3333..3395		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-
Start	5328	End	7903
Name	OJ991021_13.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	2954	End	3669
GI	none	Score	49
Exons	2954..3079, 2992..3081, 2993..3082, 3177..3242, 3194..3367, 3195..3419, 3544..3612, 3545..3613, 3631..3669		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-
Start	5328	End	7903
Name	OJ991021_13.0419.C8.o4.gp	Method	AAT/GAP
Start	5317	End	7324
GI	none	Score	818
Exons	5317..5701, 7270..7324		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-

Start	5328	End	7903
Name	OJ991021_13.0419.C8.o2.gs	Method	GENSCAN
Start	5328	End	7879
GI	none	Score	.96
Exons	5328..5347, 7270..7879		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-
Start	5328	End	7903
Name	OJ991021_13.0419.C8.o2.np	Method	AAT/NAP
Start	7247	End	7903
GI	7486009	Score	845
Exons	7247..7903		
GI Descrip.	hypothetical protein F2206.250 - Arabidopsis thaliana gi 4886290 emb CAB43450.1 (AL050300) putative protein [Arabidopsis thaliana]		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-
Start	5328	End	7903
Name	OJ991021_13.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	7266	End	7901
GI	none	Score	767
Exons	7266..7901, 7268..7825, 7767..7898, 7849..7899		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-
Start	5328	End	7903
Name	OJ991021_13.0419.C8.o2.tc	Method	TBLASTX:Cress
Start	7349	End	7804
GI	none	Score	461
Exons	7349..7804, 7350..7799		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-
Start	5328	End	7903
Name	OJ991021_13.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	7352	End	7903
GI	none	Score	482
Exons	7352..7825, 7353..7826, 7782..7874, 7849..7884, 7849..7884, 7877..7903		

Seq. No.	51317	Seq. ID	OJ991021_13.0419.C8
Gene No.	108704	Strand	-
Start	5328	End	7903
Name	OJ991021_13.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	7377	End	7655
GI	none	Score	426
Exons	7377..7655, 7379..7654		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108705	Strand	+
Start	1853	End	4993
Name	OJ991021_13.0419.C9.o1.gs	Method	GENSCAN
Start	1853	End	4993
GI	none	Score	.62
Exons	1853..4993		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108705	Strand	+
Start	1853	End	4993
Name	OJ991021_13.0419.C9.o1.np	Method	AAT/NAP
Start	1853	End	4990
GI	6907089	Score	4488
Exons	1853..4990		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108706	Strand	+
Start	11735	End	13013
Name	OJ991021_13.0419.C9.o4.np	Method	AAT/NAP
Start	11735	End	13013
GI	7523512	Score	139
Exons	11735..11755, 12885..13013		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108707	Strand	+
Start	13918	End	14064
Name	OJ991021_13.0419.C9.o5.np	Method	AAT/NAP
Start	13918	End	14064
GI	7340920	Score	110
Exons	13918..14064		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108708	Strand	+
Start	44103	End	49001
Name	OJ991021_13.0419.C9.o6.gs	Method	GENSCAN
Start	44103	End	49001
GI	none	Score	.63
Exons	44103..44105, 45964..46085, 47017..47110, 48157..48231, 48340..48361, 48529..49001		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108708	Strand	+
Start	44103	End	49001
Name	OJ991021_13.0419.C9.o6.gp	Method	AAT/GAP
Start	45661	End	45739
GI	90742_1.R1084	Score	99
Exons	45661..45739		
GI Descrip.	'5734616/dbj AP000391.1 AP000391 4.0e-29 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108709	Strand	-
Start	5616	End	11743
Name	OJ991021_13.0419.C9.o2.np	Method	AAT/NAP
Start	5616	End	11743
GI	7228457	Score	9515
Exons	5616..7161, 7228..8379, 8502..9337, 9401..11333, 11395..11743		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108710	Strand	-
Start	11972	End	25470
Name	OJ991021_13.0419.C9.o3.np	Method	AAT/NAP
Start	11972	End	24278
GI	5042454	Score	144
Exons	11972..12032, 12432..12602, 18438..18484, 24250..24278		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108710	Strand	-
Start	11972	End	25470
Name	OJ991021_13.0419.C9.o6.np	Method	AAT/NAP
Start	18887	End	21216
GI	4510383	Score	1267
Exons	18887..18994, 19898..21216		
GI Descrip.	(AC007017) unknown protein [Arabidopsis thaliana]		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108710	Strand	-
Start	11972	End	25470
Name	OJ991021_13.0419.C9.o2.gp	Method	AAT/GAP
Start	22295	End	22871
GI	uC-osflcyp178d09a1	Score	868
Exons	22295..22519, 22645..22871		
GI Descrip.	'3790587 5.0e-24 (AF079182) RING-H2 finger protein RHF2a [Arabidopsis thaliana]'		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108710	Strand	-
Start	11972	End	25470
Name	OJ991021_13.0419.C9.o7.np	Method	AAT/NAP
Start	22693	End	25470
GI	3790587	Score	792
Exons	22693..22990, 23075..23172, 23277..23639, 23742..23850, 23924..23986, 25184..25230, 25329..25470		
GI Descrip.	(AF079182) RING-H2 finger protein RHF2a [Arabidopsis thaliana]		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108710	Strand	-
Start	11972	End	25470
Name	OJ991021_13.0419.C9.o3.gp	Method	AAT/GAP
Start	23535	End	23993
GI	569794	Score	502
Exons	23535..23639, 23751..23850, 23924..23993		
GI Descrip.	3790587 5.0e-24 (AF079182) RING-H2 finger protein RHF2a [Arabidopsis thaliana]		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108711	Strand	-
Start	29093	End	34102
Name	OJ991021_13.0419.C9.o3.gs	Method	GENSCAN
Start	29093	End	34102
GI	none	Score	.79
Exons	29093..29294, 30342..30460, 30538..30762, 31188..31355, 31438..31553, 31886..32029, 32882..33704, 33709..33854,		

33904..34102

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108711	Strand	-
Start	29093	End	34102
Name	OJ991021_13.0419.C9.o8.np	Method	AAT/NAP
Start	30350	End	33657
GI	729092	Score	1781
Exons	30350..30460, 30538..30762, 31188..31355, 31438..31553, 31647..31802, 31889..32029, 32882..33657		
GI Descrip.	CALCIUM-DEPENDENT PROTEIN KINASE, ISOFORM AK1 (CDPK) gi 477484 pir A49082 calcium-dependent protein kinase isoform AK1 - Arabidopsis thaliana gi 304105 (L14771) calcium-dependent protein kinase [Arabidopsis thaliana]		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108712	Strand	-
Start	36683	End	37165
Name	OJ991021_13.0419.C9.o4.gs	Method	GENSCAN
Start	36683	End	37165
GI	none	Score	.55
Exons	36683..37165		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108713	Strand	-
Start	38545	End	43507
Name	OJ991021_13.0419.C9.o5.gs	Method	GENSCAN
Start	38545	End	43507
GI	none	Score	.76
Exons	38545..38601, 39780..39857, 40609..41537, 41587..41681, 43464..43507		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108713	Strand	-
Start	38545	End	43507
Name	OJ991021_13.0419.C9.o4.gp	Method	AAT/GAP
Start	39285	End	39731
GI	3768571	Score	749
Exons	39285..39731		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108713	Strand	-
Start	38545	End	43507
Name	OJ991021_13.0419.C9.o5.gp	Method	AAT/GAP
Start	40639	End	41236
GI	11249_1.R1084	Score	1132
Exons	40639..41236		
GI Descrip.	'3790587 5.0e-24 (AF079182) RING-H2 finger protein RHF2a [Arabidopsis thaliana]'		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	1547	End	20327
GI	none	Score	424
Exons	1547..1585, 1656..1694, 20049..20327, 20051..20326		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o10.tm	Method	TBLASTX:Maize
Start	1931	End	40954
GI	none	Score	67
Exons	1931..2071, 39300..39356, 39300..39353, 39301..39357, 39313..39354, 39357..39386, 39359..39424, 39399..39461, 39399..39452, 39400..39465, 39585..39689, 39585..39683, 39587..39691, 39587..39694, 39771..39827, 39771..39827, 39772..39828, 39779..39847, 40669..40728, 40836..40865, 40852..40950, 40871..40954		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o13.tw	Method	TBLASTX:Wheat
Start	2869	End	6222
GI	none	Score	77
Exons	2869..2970, 5625..5750, 5629..5751, 5825..6220, 5884..6222, 5939..6217		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o9.tw	Method	TBLASTX:Wheat
Start	6223	End	6604
GI	none	Score	167
Exons	6223..6603, 6254..6499, 6262..6600, 6548..6604		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o8.tm	Method	TBLASTX:Maize
Start	6409	End	6741
GI	none	Score	102
Exons	6409..6621, 6418..6471, 6431..6724, 6446..6595, 6520..6741		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o15.tw	Method	TBLASTX:Wheat
Start	6934	End	7246
GI	none	Score	63
Exons	6934..7194, 7045..7233, 7070..7246		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o5.ts	Method	TBLASTX:Soybean
Start	6994	End	7560
GI	5666795	Score	68
Exons	6994..7194, 7249..7386, 7462..7560		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
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Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o7.tw	Method	TBLASTX:Wheat
Start	7249	End	10707
GI	none	Score	93
Exons	7249..7398, 7250..7387, 7432..7683, 7433..7618, 7459..7707, 10654..10707		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o14.tw	Method	TBLASTX:Wheat
Start	8255	End	8544
GI	none	Score	48
Exons	8255..8413, 8257..8544, 8450..8539		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o4.ts	Method	TBLASTX:Soybean
Start	8308	End	8680
GI	none	Score	83
Exons	8308..8538, 8534..8680, 8538..8663		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o7.tm	Method	TBLASTX:Maize
Start	8431	End	8816
GI	none	Score	193
Exons	8431..8625, 8537..8815, 8538..8816		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o8.tw	Method	TBLASTX:Wheat
Start	8555	End	8866
GI	none	Score	193
Exons	8555..8866, 8568..8858		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o5.tm	Method	TBLASTX:Maize
Start	8843	End	9199
GI	none	Score	124
Exons	8843..9148, 8843..9199, 8853..9164		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	8867	End	9330
GI	none	Score	215
Exons	8867..9328, 8873..9328, 8874..9329, 8887..9330		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
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Gene No. 108714
 Start 46353
 Name OJ991021_13.0419.C9.o7.ts
 Start 8924
 GI none
 Exons 8924..9058, 9065..9289

Strand -
 End 49778
 Method TBLASTX:Soybean
 End 9289
 Score 120

Seq. No. 51318
 Gene No. 108714
 Start 46353
 Name OJ991021_13.0419.C9.o4.tw
 Start 9494
 GI none
 Exons 9494..9979, 9525..9785, 9807..9980

Seq. ID OJ991021_13.0419.C9
 Strand -
 End 49778
 Method TBLASTX:Wheat
 End 9980
 Score 174

Seq. No. 51318
 Gene No. 108714
 Start 46353
 Name OJ991021_13.0419.C9.o10.tw
 Start 10715
 GI none
 Exons 10715..10972, 10749..10988,
 11060..11107, 11232..11267

Seq. ID OJ991021_13.0419.C9
 Strand -
 End 49778
 Method TBLASTX:Wheat
 End 11267
 Score 95

Seq. No. 51318
 Gene No. 108714
 Start 46353
 Name OJ991021_13.0419.C9.o11.tm
 Start 10817
 GI none
 Exons 10817..11065, 10818..11102

Seq. ID OJ991021_13.0419.C9
 Strand -
 End 49778
 Method TBLASTX:Maize
 End 11102
 Score 92

Seq. No. 51318
 Gene No. 108714
 Start 46353
 Name OJ991021_13.0419.C9.o3.ts
 Start 18144
 GI none
 Exons 18144..18191, 18322..18345,
 23072..23188, 23074..23184,
 23592..23639, 23739..23852,
 23929..24000, 23932..23988,
 25183..25230, 25318..25425,
 25326..25457

Seq. ID OJ991021_13.0419.C9
 Strand -
 End 49778
 Method TBLASTX:Soybean
 End 25457
 Score 196

Seq. No. 51318
 Gene No. 108714
 Start 46353
 Name OJ991021_13.0419.C9.o1.tm
 Start 20028
 GI none
 Exons 20028..20132, 20036..20491,
 20498..20581, 20499..20582,
 20550..20669, 20570..20671

Seq. ID OJ991021_13.0419.C9
 Strand -
 End 49778
 Method TBLASTX:Maize
 End 20671
 Score 599

Seq. No. 51318
 Gene No. 108714
 Start 46353
 Name OJ991021_13.0419.C9.o1.ts

Seq. ID OJ991021_13.0419.C9
 Strand -
 End 49778
 Method TBLASTX:Soybean

Start	20036	End	20962
GI	none	Score	213
Exons	20036..20362, 20039..20500, 20043..20501, 20498..20581, 20573..20800, 20574..20774, 20841..20948, 20846..20962		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o2.tc	Method	TBLASTX:Cress
Start	20036	End	20476
GI	none	Score	411
Exons	20036..20476, 20037..20471		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o3.tc	Method	TBLASTX:Cress
Start	20498	End	21118
GI	none	Score	37
Exons	20498..20602, 20571..20609, 20576..20776, 20601..20774, 20843..21118		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o3.tw	Method	TBLASTX:Wheat
Start	20627	End	20998
GI	none	Score	184
Exons	20627..20800, 20628..20780, 20786..20845, 20840..20998, 20844..20948, 20897..20995		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	20672	End	21076
GI	none	Score	153
Exons	20672..20800, 20673..20780, 20783..20845, 20840..21076, 20844..21008, 20897..21022		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o6.ts	Method	TBLASTX:Soybean
Start	20963	End	21118
GI	none	Score	205
Exons	20963..21118		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o12.tw	Method	TBLASTX:Wheat
Start	22735	End	23004
GI	none	Score	254
Exons	22735..23004, 22736..22999		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
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Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o9.tm	Method	TBLASTX:Maize
Start	22739	End	25430
GI	none	Score	180
Exons	22739..22756, 22805..22990, 22828..22992, 23072..23149, 23074..23148, 23496..23645, 23512..23625, 23739..23852, 23743..23772, 23924..23986, 23924..23986, 23929..24000, 25181..25237, 25183..25230, 25326..25430, 25333..25425		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o4.tc	Method	TBLASTX:Cress
Start	22823	End	25454
GI	none	Score	156
Exons	22823..22993, 22828..22998, 23072..23209, 23074..23172, 23487..23624, 23539..23580, 23572..23622, 23592..23639, 23738..23848, 23739..23852, 23743..23820, 23924..23986, 23929..24000, 25181..25228, 25182..25298, 25183..25230, 25306..25425, 25326..25454		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o11.tw	Method	TBLASTX:Wheat
Start	29038	End	32930
GI	none	Score	103
Exons	29038..29127, 31648..31803, 31649..31867, 31873..32031, 31890..32030, 32869..32928, 32880..32930		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o4.tm	Method	TBLASTX:Maize
Start	30270	End	30699
GI	none	Score	153
Exons	30270..30461, 30335..30463, 30338..30460, 30522..30698, 30529..30699, 30574..30699		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o5.tw	Method	TBLASTX:Wheat
Start	30344	End	31277
GI	none	Score	82
Exons	30344..30460, 30348..30461, 30529..30762, 30653..30724, 30715..30771, 31143..31277		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	30369	End	33368
GI	none	Score	57
Exons	30369..30461, 30371..30460, 30538..30762, 30543..30770, 30570..30758, 30589..30759, 31128..31367, 31179..31367,		

31433..31549, 31435..31557, 31648..31803, 31655..31804,
31867..32031, 31890..32030, 32880..33125, 32880..33368,
32881..33354

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	30399	End	33428
GI	none	Score	80
Exons	30399..30461, 30410..30463, 30529..30762, 30577..30759, 31143..31367, 31191..31367, 31433..31552, 31435..31557, 31441..31566, 31645..31803, 31646..31804, 31864..32028, 31868..32035, 31890..32027, 32883..33368, 32884..33099, 33175..33369, 33378..33428		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	30700	End	33215
GI	none	Score	80
Exons	30700..30762, 30704..30763, 31179..31367, 31191..31367, 31318..31368, 31433..31558, 31435..31566, 31435..31557, 31645..31803, 31646..31804, 31864..32031, 31890..32030, 32868..33041, 32880..33065, 32881..33045, 33051..33068, 33063..33122, 33090..33149, 33162..33215, 33172..33201		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o6.tw	Method	TBLASTX:Wheat
Start	32931	End	33218
GI	none	Score	146
Exons	32931..33125, 32931..33218, 33166..33201		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o6.tm	Method	TBLASTX:Maize
Start	40644	End	41277
GI	none	Score	43
Exons	40644..40667, 40731..40796, 40777..40833, 40960..40992, 40961..40999, 41016..41033, 41086..41106, 41086..41277, 41164..41277		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o10.np	Method	AAT/NAP
Start	46353	End	49778
GI	6679887	Score	62
Exons	46353..46586, 49493..49524, 49621..49778		
GI Descrip.	frizzled homolog 8 (Drosophila) gi 1151260 gb AAC52433.1 (U43321) transmembrane receptor [Mus musculus]		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
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Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o7.gs	Method	GENSCAN
Start	49461	End	49671
GI	none	Score	.78
Exons	49461..49671		

Seq. No.	51318	Seq. ID	OJ991021_13.0419.C9
Gene No.	108714	Strand	-
Start	46353	End	49778
Name	OJ991021_13.0419.C9.o8.gp	Method	AAT/GAP
Start	49522	End	49778
GI	5607577	Score	464
Exons	49522..49778		

Seq. No.	51319	Seq. ID	OJ991021_13.0419.C10
Gene No.	108715	Strand	+
Start	2282	End	6025
Name	OJ991021_13.0419.C10.o2.gs	Method	GENSCAN
Start	2282	End	5837
GI	none	Score	.84
Exons	2282..2339, 2475..2506, 2906..3111, 3196..3307, 3482..3578, 3669..3778, 3850..4007, 4413..4551, 4630..4746, 4938..5045, 5134..5205, 5471..5590, 5672..5837		

Seq. No.	51319	Seq. ID	OJ991021_13.0419.C10
Gene No.	108715	Strand	+
Start	2282	End	6025
Name	OJ991021_13.0419.C10.o1.np	Method	AAT/NAP
Start	2906	End	6025
GI	4510428	Score	1017
Exons	2906..3111, 3196..3349, 3445..3578, 3669..3778, 3850..3956, 4413..4551, 4630..4746, 4938..5045, 5134..5205, 5471..5590, 5672..5762, 5790..5837, 5920..6025		
GI Descrip.	(AC006929) Argonaute (AGO1)-like protein [Arabidopsis thaliana]		

Seq. No.	51319	Seq. ID	OJ991021_13.0419.C10
Gene No.	108716	Strand	-
Start	1	End	321
Name	OJ991021_13.0419.C10.o1.gp	Method	AAT/GAP
Start	1	End	321
GI	5607577	Score	629
Exons	1..321		

Seq. No.	51319	Seq. ID	OJ991021_13.0419.C10
Gene No.	108717	Strand	
Start	2905	End	6025
Name	OJ991021_13.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	2905	End	3310
GI	none	Score	182
Exons	2905..3069, 2906..3097, 3193..3291, 3194..3310		

Seq. No.	51319	Seq. ID	OJ991021_13.0419.C10
Gene No.	108717	Strand	
Start	2905	End	6025
Name	OJ991021_13.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	2906	End	6025

GI	none	Score	181
Exons	2906..3094, 2989..3069, 2992..3108, 3194..3310, 3446..3577, 3520..3582, 3659..3781, 3667..3774, 3844..3960, 4368..4472, 4414..4554, 4500..4559, 4624..4794, 4629..4718, 4884..5054, 4964..5053, 5092..5211, 5134..5211, 5468..5548, 5470..5520, 5549..5590, 5672..5809, 5919..6023, 5936..6025		

Seq. No.	51319	Seq. ID	OJ991021_13.0419.C10
Gene No.	108717	Strand	
Start	2905	End	6025
Name	OJ991021_13.0419.C10.o3.tm	Method	TBLASTX:Maize
Start	2918	End	3307
GI	none	Score	183
Exons	2918..3094, 2989..3075, 3183..3290, 3199..3297, 3200..3307		

Seq. No.	51319	Seq. ID	OJ991021_13.0419.C10
Gene No.	108717	Strand	
Start	2905	End	6025
Name	OJ991021_13.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	3446	End	4758
GI	none	Score	163
Exons	3446..3577, 3503..3574, 3659..3781, 3667..3783, 3844..3960, 4404..4472, 4414..4554, 4500..4559, 4624..4758, 4629..4757		

Seq. No.	51319	Seq. ID	OJ991021_13.0419.C10
Gene No.	108717	Strand	
Start	2905	End	6025
Name	OJ991021_13.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	3488	End	4713
GI	none	Score	145
Exons	3488..3577, 3517..3582, 3659..3781, 3669..3770, 3844..3963, 3852..3959, 4342..4554, 4423..4551, 4431..4556, 4431..4559, 4624..4713, 4629..4697		

Seq. No.	51319	Seq. ID	OJ991021_13.0419.C10
Gene No.	108717	Strand	
Start	2905	End	6025
Name	OJ991021_13.0419.C10.o3.ts	Method	TBLASTX:Soybean
Start	4935	End	6023
GI	none	Score	105
Exons	4935..5054, 4937..5053, 5112..5210, 5134..5211, 5468..5548, 5549..5590, 5672..5740, 5792..5833, 5918..6022, 5919..6023		

Seq. No.	51319	Seq. ID	OJ991021_13.0419.C10
Gene No.	108717	Strand	
Start	2905	End	6025
Name	OJ991021_13.0419.C10.o4.tm	Method	TBLASTX:Maize
Start	4935	End	5211
GI	none	Score	122
Exons	4935..5054, 4979..5053, 5112..5210, 5131..5211		

Seq. No.	51319	Seq. ID	OJ991021_13.0419.C10
Gene No.	108717	Strand	
Start	2905	End	6025
Name	OJ991021_13.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	5486	End	6025
GI	none	Score	174

Exons 5486..5593, 5486..5590, 5487..5591, 5488..5592, 5673..5798, 5675..5755, 5677..5787, 5678..5818, 5792..5875, 5797..5838, 5918..6025, 5919..6023, 5924..6025

Seq. No. 51320 Seq. ID OJ991021_13.0419.C11
Gene No. 108718 Strand +
Start 1 End 720
Name OJ991021_13.0419.C11.o1.np Method AAT/NAP
Start 1 End 720
GI 4510428 Score 283
Exons 1..70, 175..248, 344..438, 535..720
GI Descrip. (AC006929) Argonaute (AGO1)-like protein [Arabidopsis thaliana]

Seq. No. 51320 Seq. ID OJ991021_13.0419.C11
Gene No. 108718 Strand +
Start 1 End 720
Name OJ991021_13.0419.C11.o1.ts Method TBLASTX:Soybean
Start 1 End 565
GI none Score 77
Exons 1..72, 45..71, 173..247, 174..248, 194..250, 323..436, 340..441, 343..459, 533..565

Seq. No. 51320 Seq. ID OJ991021_13.0419.C11
Gene No. 108718 Strand +
Start 1 End 720
Name OJ991021_13.0419.C11.o1.tm Method TBLASTX:Maize
Start 1 End 565
GI none Score 132
Exons 1..72, 3..71, 173..244, 174..248, 176..250, 323..436, 323..445, 339..464, 340..441, 533..565

Seq. No. 51320 Seq. ID OJ991021_13.0419.C11
Gene No. 108718 Strand +
Start 1 End 720
Name OJ991021_13.0419.C11.o1.tc Method TBLASTX:Cress
Start 1 End 565
GI none Score 80
Exons 1..72, 45..71, 173..244, 174..248, 176..250, 323..436, 323..442, 337..441, 533..565

Seq. No. 51320 Seq. ID OJ991021_13.0419.C11
Gene No. 108718 Strand +
Start 1 End 720
Name OJ991021_13.0419.C11.o1.gs Method GENSCAN
Start 40 End 438
GI none Score .94
Exons 40..70, 175..248, 344..438

Seq. No. 51321 Seq. ID OJ991201_16.0421.C1
Gene No. 108719 Strand +
Start 1 End 896
Name OJ991201_16.0421.C1.o1.np Method AAT/NAP
Start 1 End 896
GI 6466937 Score 535
Exons 1..896
GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No. 51321
 Gene No. 108719
 Start 1
 Name OJ991201_16.0421.C1.o1.tm
 Start 413
 GI none
 Exons 413..514, 523..882, 524..886

Seq. ID OJ991201_16.0421.C1
 Strand +
 End 896
 Method TBLASTX:Maize
 End 886
 Score 92

Seq. No. 51321
 Gene No. 108719
 Start 1
 Name OJ991201_16.0421.C1.o1.tw
 Start 524
 GI none
 Exons 524..892, 613..870

Seq. ID OJ991201_16.0421.C1
 Strand +
 End 896
 Method TBLASTX:Wheat
 End 892
 Score 328

Seq. No. 51321
 Gene No. 108719
 Start 1
 Name OJ991201_16.0421.C1.o1.ts
 Start 545
 GI none
 Exons 545..859, 571..735

Seq. ID OJ991201_16.0421.C1
 Strand +
 End 896
 Method TBLASTX:Soybean
 End 859
 Score 237

Seq. No. 51322
 Gene No. 108720
 Start 9000
 Name OJ991201_16.0421.C7.o2.gs
 Start 9000
 GI none
 Exons 9000..9067, 9205..9668, 10493..10621, 11320..11407, 11819..11921, 12515..13011, 13073..13178

Seq. ID OJ991201_16.0421.C7
 Strand +
 End 13178
 Method GENSCAN
 End 13178
 Score .61

Seq. No. 51322
 Gene No. 108721
 Start 17965
 Name OJ991201_16.0421.C7.o4.gs
 Start 17965
 GI none
 Exons 17965..22824

Seq. ID OJ991201_16.0421.C7
 Strand +
 End 23295
 Method GENSCAN
 End 22824
 Score .63

Seq. No. 51322
 Gene No. 108721
 Start 17965
 Name OJ991201_16.0421.C7.o2.np
 Start 18499
 GI 6466937
 Exons 18499..19021, 19075..22746, 23188..23295
 GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. ID OJ991201_16.0421.C7
 Strand +
 End 23295
 Method AAT/NAP
 End 23295
 Score 2428

Seq. No. 51322
 Gene No. 108722
 Start 23215
 Name OJ991201_16.0421.C7.o5.gs
 Start 23215

Seq. ID OJ991201_16.0421.C7
 Strand +
 End 23418
 Method GENSCAN
 End 23418

GI	none	Score	.45
Exons	23215..23418		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o12.tm	Method	TBLASTX:Maize
Start	5653	End	6084
GI	none	Score	76
Exons	5653..5736, 5791..6084, 5889..6083		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o9.tm	Method	TBLASTX:Maize
Start	6184	End	6616
GI	none	Score	76
Exons	6184..6243, 6238..6351, 6301..6417, 6302..6448, 6428..6505, 6449..6616, 6449..6490, 6499..6606		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o8.tw	Method	TBLASTX:Wheat
Start	6223	End	6616
GI	none	Score	96
Exons	6223..6321, 6301..6378, 6311..6439, 6436..6525, 6437..6559, 6563..6616		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o11.tm	Method	TBLASTX:Maize
Start	19147	End	19776
GI	none	Score	113
Exons	19147..19275, 19351..19599, 19684..19776		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o4.tm	Method	TBLASTX:Maize
Start	19888	End	20358
GI	none	Score	574
Exons	19888..20358, 19923..20333, 19972..20346		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o2.tw	Method	TBLASTX:Wheat
Start	20017	End	20463
GI	none	Score	389
Exons	20017..20463, 20085..20429		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o6.ts	Method	TBLASTX:Soybean

Start 20017
GI none
Exons 20017..20331, 20043..20207

End 20331
Score 237

Seq. No. 51322
Gene No. 108723
Start 37344
Name OJ991201_16.0421.C7.o4.tc
Start 20110
GI none
Exons 20110..20433

Seq. ID OJ991201_16.0421.C7
Strand -
End 43007
Method TBLASTX:Cress
End 20433
Score 192

Seq. No. 51322
Gene No. 108723
Start 37344
Name OJ991201_16.0421.C7.o10.tm
Start 20374
GI none
Exons 20374..20538

Seq. ID OJ991201_16.0421.C7
Strand -
End 43007
Method TBLASTX:Maize
End 20538
Score 203

Seq. No. 51322
Gene No. 108723
Start 37344
Name OJ991201_16.0421.C7.o5.ts
Start 20440
GI none
Exons 20440..20799

Seq. ID OJ991201_16.0421.C7
Strand -
End 43007
Method TBLASTX:Soybean
End 20799
Score 295

Seq. No. 51322
Gene No. 108723
Start 37344
Name OJ991201_16.0421.C7.o6.tw
Start 20512
GI none
Exons 20512..20913

Seq. ID OJ991201_16.0421.C7
Strand -
End 43007
Method TBLASTX:Wheat
End 20913
Score 300

Seq. No. 51322
Gene No. 108723
Start 37344
Name OJ991201_16.0421.C7.o3.tm
Start 20541
GI none
Exons 20541..20987, 20542..21063

Seq. ID OJ991201_16.0421.C7
Strand -
End 43007
Method TBLASTX:Maize
End 21063
Score 634

Seq. No. 51322
Gene No. 108723
Start 37344
Name OJ991201_16.0421.C7.o7.ts
Start 20823
GI none
Exons 20823..20972, 20824..21078

Seq. ID OJ991201_16.0421.C7
Strand -
End 43007
Method TBLASTX:Soybean
End 21078
Score 198

Seq. No. 51322
Gene No. 108723
Start 37344
Name OJ991201_16.0421.C7.o8.tm
Start 21064

Seq. ID OJ991201_16.0421.C7
Strand -
End 43007
Method TBLASTX:Maize
End 21489

GI	none	Score	226
Exons	21064..21267, 21066..21269, 21253..21489, 21369..21488		
Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o5.tw	Method	TBLASTX:Wheat
Start	21247	End	21657
GI	none	Score	321
Exons	21247..21657, 21414..21656		
Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	21490	End	22127
GI	none	Score	769
Exons	21490..22125, 21490..21789, 21492..22127		
Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o3.ts	Method	TBLASTX:Soybean
Start	21520	End	21897
GI	none	Score	342
Exons	21520..21606, 21526..21897, 21543..21806, 21640..21897		
Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o3.tw	Method	TBLASTX:Wheat
Start	21745	End	22332
GI	none	Score	312
Exons	21745..22137, 21834..22136, 22186..22332		
Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o7.tm	Method	TBLASTX:Maize
Start	22131	End	22770
GI	none	Score	379
Exons	22131..22496, 22132..22533, 22506..22751, 22507..22770		
Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o9.tw	Method	TBLASTX:Wheat
Start	22333	End	22608
GI	none	Score	216
Exons	22333..22608, 22344..22568		
Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o2.ts	Method	TBLASTX:Soybean
Start	37317	End	37997
GI	none	Score	72

Exons 37317..37580, 37414..37575, 37608..37997, 37651..37803

Seq. No. 51322 Seq. ID OJ991201_16.0421.C7
Gene No. 108723 Strand -
Start 37344 End 43007
Name OJ991201_16.0421.C7.o3.np Method AAT/NAP
Start 37344 End 43007
GI 3777527 Score 2367
Exons 37344..39110, 39165..40469, 40680..40907, 41043..41317,
41744..41834, 42037..43007
GI Descrip. (AF053008) gag-pol polyprotein [Glycine max]

Seq. No. 51322 Seq. ID OJ991201_16.0421.C7
Gene No. 108723 Strand -
Start 37344 End 43007
Name OJ991201_16.0421.C7.o1.tc Method TBLASTX:Cress
Start 37359 End 38018
GI none Score 67
Exons 37359..37571, 37453..37572, 37590..37724, 37836..38006,
37845..38018

Seq. No. 51322 Seq. ID OJ991201_16.0421.C7
Gene No. 108723 Strand -
Start 37344 End 43007
Name OJ991201_16.0421.C7.o2.tm Method TBLASTX:Maize
Start 37359 End 38015
GI none Score 341
Exons 37359..38015, 37360..38007

Seq. No. 51322 Seq. ID OJ991201_16.0421.C7
Gene No. 108723 Strand -
Start 37344 End 43007
Name OJ991201_16.0421.C7.o10.tw Method TBLASTX:Wheat
Start 37386 End 37772
GI none Score 63
Exons 37386..37580, 37399..37575, 37473..37577, 37599..37772,
37657..37725

Seq. No. 51322 Seq. ID OJ991201_16.0421.C7
Gene No. 108723 Strand -
Start 37344 End 43007
Name OJ991201_16.0421.C7.o7.tw Method TBLASTX:Wheat
Start 37782 End 38198
GI none Score 73
Exons 37782..38018, 37783..38007, 38046..38198

Seq. No. 51322 Seq. ID OJ991201_16.0421.C7
Gene No. 108723 Strand -
Start 37344 End 43007
Name OJ991201_16.0421.C7.o8.ts Method TBLASTX:Soybean
Start 37998 End 38226
GI none Score 73
Exons 37998..38222, 38059..38226

Seq. No. 51322 Seq. ID OJ991201_16.0421.C7
Gene No. 108723 Strand -
Start 37344 End 43007

Name	OJ991201_16.0421.C7.o6.tm	Method	TBLASTX:Maize
Start	38259	End	38706
GI	none	Score	136
Exons	38259..38705, 38268..38564, 38269..38706		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o1.ts	Method	TBLASTX:Soybean
Start	38368	End	38964
GI	5509260	Score	401
Exons	38368..38964, 38370..38897		
GI Descrip.	-		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o1.tw	Method	TBLASTX:Wheat
Start	38385	End	38852
GI	none	Score	151
Exons	38385..38729, 38386..38553, 38584..38712, 38763..38852, 38769..38846		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o2.tc	Method	TBLASTX:Cress
Start	38487	End	38753
GI	none	Score	122
Exons	38487..38753, 38488..38748		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o4.ts	Method	TBLASTX:Soybean
Start	39190	End	39651
GI	none	Score	52
Exons	39190..39318, 39209..39328, 39340..39651, 39347..39640		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o5.tm	Method	TBLASTX:Maize
Start	39190	End	39825
GI	none	Score	277
Exons	39190..39342, 39324..39425, 39337..39759, 39338..39667, 39742..39825, 39747..39791		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o3.tc	Method	TBLASTX:Cress
Start	39196	End	39633
GI	none	Score	181
Exons	39196..39327, 39343..39633		

Seq. No.	51322	Seq. ID	OJ991201_16.0421.C7
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Gene No.	108723	Strand	-
Start	37344	End	43007
Name	OJ991201_16.0421.C7.o4.tw	Method	TBLASTX:Wheat
Start	39493	End	40056
GI	none	Score	96
Exons	39493..39780, 39494..39595, 39508..39783, 39820..40056, 39838..40050		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108724	Strand	+
Start	659	End	4127
Name	OJ991201_16.0421.C8.o3.np	Method	AAT/NAP
Start	659	End	3803
GI	5852172	Score	114
Exons	659..808, 3665..3803		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108724	Strand	+
Start	659	End	4127
Name	OJ991201_16.0421.C8.o2.gs	Method	GENSCAN
Start	3641	End	4127
GI	none	Score	.73
Exons	3641..3797, 4000..4127		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108725	Strand	+
Start	7175	End	15973
Name	OJ991201_16.0421.C8.o4.np	Method	AAT/NAP
Start	7175	End	13185
GI	4680207	Score	409
Exons	7175..7194, 10254..11293, 13139..13185		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108725	Strand	+
Start	7175	End	15973
Name	OJ991201_16.0421.C8.o4.gs	Method	GENSCAN
Start	9023	End	15973
GI	none	Score	.49
Exons	9023..9333, 9356..9669, 9717..9849, 10073..10845, 11007..12020, 14908..15772, 15952..15973		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108726	Strand	+
Start	17935	End	24540
Name	OJ991201_16.0421.C8.o5.gs	Method	GENSCAN
Start	17935	End	24540
GI	none	Score	.47
Exons	17935..18035, 21295..21370, 21600..21783, 21837..21960, 22806..22846, 23820..23994, 24093..24540		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108726	Strand	+
Start	17935	End	24540
Name	OJ991201_16.0421.C8.o7.np	Method	AAT/NAP

Start	23840	End	24342
GI	4678202	Score	236
Exons	23840..24342		
GI Descrip.	(AC007134) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108726	Strand	+
Start	17935	End	24540
Name	OJ991201_16.0421.C8.o6.np	Method	AAT/NAP
Start	23846	End	24316
GI	4056568	Score	62
Exons	23846..23994, 24234..24316		
GI Descrip.	(U90944) PDI-like protein [Zea mays]		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108727	Strand	+
Start	25816	End	27226
Name	OJ991201_16.0421.C8.o8.np	Method	AAT/NAP
Start	25816	End	27226
GI	7523502	Score	105
Exons	25816..25920, 27204..27226		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108728	Strand	+
Start	31978	End	37391
Name	OJ991201_16.0421.C8.o9.np	Method	AAT/NAP
Start	31978	End	36585
GI	4680203	Score	3156
Exons	31978..32013, 33281..34971, 35125..35331, 35608..36585		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108728	Strand	+
Start	31978	End	37391
Name	OJ991201_16.0421.C8.o2.gp	Method	AAT/GAP
Start	33310	End	37391
GI	342_1.R1084	Score	6581
Exons	33310..36690, 36795..37391		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108729	Strand	+
Start	39086	End	42795
Name	OJ991201_16.0421.C8.o10.np	Method	AAT/NAP
Start	39071	End	42785
GI	4680204	Score	1004
Exons	39071..40507, 40603..41699, 41806..41979, 42074..42204, 42554..42785		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108729	Strand	+
Start	39086	End	42795
Name	OJ991201_16.0421.C8.o9.gs	Method	GENSCAN
Start	39086	End	42795

GI	none	Score	.68
Exons	39086..40024, 40043..40342, 40424..40507, 40603..40744, 40870..41012, 41014..41673, 41806..41979, 42039..42184, 42268..42340, 42435..42533, 42613..42795		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108730	Strand	+
Start	46438	End	50181
Name	OJ991201_16.0421.C8.o10.gs	Method	GENSCAN
Start	46438	End	49840
GI	none	Score	.76
Exons	46438..47432, 48766..49306, 49376..49840		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108730	Strand	+
Start	46438	End	50181
Name	OJ991201_16.0421.C8.o13.np	Method	AAT/NAP
Start	46777	End	50181
GI	7486071	Score	78
Exons	46777..46979, 49135..49237, 50149..50181		
GI Descrip.	hypothetical protein F24G24.170 - Arabidopsis thaliana (fragment) gi 4538966 emb CAB39790.1 (AL049488) putative protein [Arabidopsis thaliana]		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108731	Strand	-
Start	19	End	3262
Name	OJ991201_16.0421.C8.o1.gs	Method	GENSCAN
Start	19	End	3262
GI	none	Score	.41
Exons	19..398, 464..590, 680..764, 1152..2078, 2463..3262		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108732	Strand	-
Start	3652	End	3911
Name	OJ991201_16.0421.C8.o1.gp	Method	AAT/GAP
Start	3652	End	3911
GI	427610	Score	370
Exons	3652..3911		
GI Descrip.	5852172 emb CAB55410.1 4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108733	Strand	-
Start	7639	End	8250
Name	OJ991201_16.0421.C8.o3.gs	Method	GENSCAN
Start	7639	End	8250
GI	none	Score	.58
Exons	7639..7996, 8243..8250		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108734	Strand	-
Start	36225	End	36669
Name	OJ991201_16.0421.C8.o3.gp	Method	AAT/GAP
Start	36225	End	36669
GI	LIB3431-028-P1-N1-A10	Score	762
Exons	36225..36571, 36599..36669		

GI Descrip. '4680203/gb|AAD27566.1|AF114171_7 3.0e-33 (AF114171) TNP2-like protein [Sorghum bicolor]'

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108735	Strand	-
Start	37505	End	38065
Name	OJ991201_16.0421.C8.o8.gs	Method	GENSCAN
Start	37505	End	38065
GI	none	Score	.94
Exons	37505..38065		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o6.tw	Method	TBLASTX:Wheat
Start	13973	End	19015
GI	none	Score	70
Exons	13973..14080, 18653..19015, 18677..18820		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o4.tm	Method	TBLASTX:Maize
Start	14940	End	49228
GI	none	Score	61
Exons	14940..15023, 15069..15113, 15170..15256, 15171..15335, 23855..23947, 23866..23946, 23975..24004, 24040..24183, 24042..24206, 25955..26017, 46732..46770, 46776..46853, 46849..46935, 47053..47088, 48850..48948, 48851..48949, 48851..48991, 48888..49004, 48941..49081, 49136..49228		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o3.ts	Method	TBLASTX:Soybean
Start	19235	End	19757
GI	none	Score	53
Exons	19235..19330, 19314..19421, 19419..19610, 19701..19757		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o7.tw	Method	TBLASTX:Wheat
Start	19250	End	19610
GI	none	Score	57
Exons	19250..19330, 19308..19472, 19314..19610		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	19368	End	20078
GI	none	Score	142
Exons	19368..19610, 19566..20078, 19702..19968		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-

Start	44353	End	49228
Name	OJ991201_16.0421.C8.o8.tw	Method	TBLASTX:Wheat
Start	19686	End	20031
GI	none	Score	88
Exons	19686..19838, 19702..19839, 19848..20030, 19855..20031		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o4.tw	Method	TBLASTX:Wheat
Start	33605	End	34001
GI	none	Score	99
Exons	33605..33757, 33624..33743, 33740..33991, 33748..33990, 33751..33993, 33759..34001		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	33922	End	34351
GI	none	Score	98
Exons	33922..34005, 33923..33997, 33998..34060, 34055..34351, 34109..34333		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o2.tc	Method	TBLASTX:Cress
Start	34084	End	34399
GI	none	Score	272
Exons	34084..34236, 34091..34399, 34276..34371		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o2.tw	Method	TBLASTX:Wheat
Start	34220	End	34688
GI	none	Score	72
Exons	34220..34273, 34228..34272, 34274..34378, 34285..34374, 34392..34478, 34393..34479, 34459..34683, 34480..34683, 34482..34688		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o2.tm	Method	TBLASTX:Maize
Start	34277	End	34722
GI	none	Score	108
Exons	34277..34399, 34393..34518, 34528..34722		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o2.ts	Method	TBLASTX:Soybean
Start	34552	End	34794
GI	none	Score	212
Exons	34552..34794		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o3.tw	Method	TBLASTX:Wheat
Start	34827	End	35232
GI	none	Score	87
Exons	34827..34877, 34828..34890, 34876..35118, 34896..35078, 35148..35231, 35151..35231, 35152..35232		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o1.tw	Method	TBLASTX:Wheat
Start	35232	End	36531
GI	none	Score	524
Exons	35232..36116, 35239..35634, 35247..35942, 35680..36132, 36125..36166, 36127..36171, 36130..36171, 36174..36269, 36178..36237, 36216..36356, 36217..36357, 36370..36450, 36439..36531		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o3.tm	Method	TBLASTX:Maize
Start	35257	End	35571
GI	none	Score	280
Exons	35257..35571, 35268..35543		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	35502	End	35949
GI	none	Score	173
Exons	35502..35942, 35502..35945, 35506..35949, 35506..35949		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o5.tw	Method	TBLASTX:Wheat
Start	39714	End	40117
GI	none	Score	64
Exons	39714..39854, 39714..39824, 39716..39949, 39716..39910, 39817..39957, 39947..40117, 40042..40116		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228
Name	OJ991201_16.0421.C8.o9.tw	Method	TBLASTX:Wheat
Start	40118	End	40815
GI	none	Score	69
Exons	40118..40198, 40439..40513, 40597..40815		

Seq. No.	51323	Seq. ID	OJ991201_16.0421.C8
Gene No.	108736	Strand	-
Start	44353	End	49228

Name	OJ991201_16.0421.C8.o12.np	Method	AAT/NAP
Start	44353	End	44505
GI	7340924	Score	68
Exons	44353..44505		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51324	Seq. ID	OJ991201_16.0421.C9
Gene No.	108737	Strand	+
Start	2635	End	5236
Name	OJ991201_16.0421.C9.o1.gs	Method	GENSCAN
Start	2635	End	5236
GI	none	Score	.61
Exons	2635..2770, 3174..3357, 4070..4221, 4937..5046, 5117..5236		

Seq. No.	51324	Seq. ID	OJ991201_16.0421.C9
Gene No.	108738	Strand	-
Start	5716	End	7707
Name	OJ991201_16.0421.C9.o2.gs	Method	GENSCAN
Start	5716	End	7707
GI	none	Score	.56
Exons	5716..5965, 6263..6479, 6757..6834, 7504..7707		

Seq. No.	51325	Seq. ID	OJ991201_16.0421.C10
Gene No.	108739	Strand	-
Start	690	End	822
Name	OJ991201_16.0421.C10.o1.gs	Method	GENSCAN
Start	690	End	822
GI	none	Score	.67
Exons	690..822		

Seq. No.	51326	Seq. ID	OJ991201_11.0421.C1
Gene No.	108740	Strand	-
Start	782	End	1003
Name	OJ991201_11.0421.C1.o1.gs	Method	GENSCAN
Start	782	End	1003
GI	none	Score	.84
Exons	782..1003		

Seq. No.	51327	Seq. ID	OJ991201_11.0421.C2
Gene No.	108741	Strand	-
Start	180	End	1211
Name	OJ991201_11.0421.C2.o1.gs	Method	GENSCAN
Start	180	End	1211
GI	none	Score	.45
Exons	180..491, 621..911, 1166..1211		

Seq. No.	51327	Seq. ID	OJ991201_11.0421.C2
Gene No.	108742	Strand	-
Start	2278	End	3651
Name	OJ991201_11.0421.C2.o3.tm	Method	TBLASTX:Maize
Start	256	End	1233
GI	none	Score	163
Exons	256..306, 289..435, 290..412, 400..474, 401..487, 673..732, 695..733, 731..895, 732..764, 734..892, 736..909, 775..909, 1124..1189, 1137..1232, 1140..1226, 1144..1233		

Seq. No.	51327	Seq. ID	OJ991201_11.0421.C2
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Gene No.	108742	Strand	-
Start	2278	End	3651
Name	OJ991201_11.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	2251	End	2556
GI	none	Score	61
Exons	2251..2556, 2278..2430, 2318..2533		

Seq. No.	51327	Seq. ID	OJ991201_11.0421.C2
Gene No.	108742	Strand	-
Start	2278	End	3651
Name	OJ991201_11.0421.C2.o1.np	Method	AAT/NAP
Start	2271	End	3651
GI	7300345	Score	232
Exons	2271..2741, 2897..3099, 3604..3651		
GI Descrip.	(AE003721) CG7940 gene product [Drosophila melanogaster]		

Seq. No.	51327	Seq. ID	OJ991201_11.0421.C2
Gene No.	108742	Strand	-
Start	2278	End	3651
Name	OJ991201_11.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	2278	End	2752
GI	none	Score	401
Exons	2278..2751, 2279..2752		

Seq. No.	51327	Seq. ID	OJ991201_11.0421.C2
Gene No.	108742	Strand	-
Start	2278	End	3651
Name	OJ991201_11.0421.C2.o2.gs	Method	GENSCAN
Start	2278	End	3239
GI	none	Score	.86
Exons	2278..2775, 2897..3239		

Seq. No.	51327	Seq. ID	OJ991201_11.0421.C2
Gene No.	108742	Strand	-
Start	2278	End	3651
Name	OJ991201_11.0421.C2.o2.tc	Method	TBLASTX:Cress
Start	2284	End	2574
GI	none	Score	110
Exons	2284..2574, 2287..2511, 2318..2533		

Seq. No.	51327	Seq. ID	OJ991201_11.0421.C2
Gene No.	108742	Strand	-
Start	2278	End	3651
Name	OJ991201_11.0421.C2.o1.tc	Method	TBLASTX:Cress
Start	2737	End	3166
GI	none	Score	115
Exons	2737..2781, 2897..3166, 2904..3098, 2965..3141, 2972..3166		

Seq. No.	51327	Seq. ID	OJ991201_11.0421.C2
Gene No.	108742	Strand	-
Start	2278	End	3651
Name	OJ991201_11.0421.C2.o2.tm	Method	TBLASTX:Maize
Start	2968	End	3238
GI	none	Score	253
Exons	2968..3237, 2969..3238, 2972..3238		

Seq. No.	51327	Seq. ID	OJ991201_11.0421.C2
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Gene No.	108742	Strand	-
Start	2278	End	3651
Name	OJ991201_11.0421.C2.o2.ts	Method	TBLASTX:Soybean
Start	2981	End	3163
GI	none	Score	72
Exons	2981..3163, 2982..3098		
Seq. No.	51328	Seq. ID	OJ991201_11.0421.C3
Gene No.	108743	Strand	-
Start	30	End	4354
Name	OJ991201_11.0421.C3.o1.gs	Method	GENSCAN
Start	30	End	4354
GI	none	Score	.9
Exons	30..119, 289..720, 865..955, 1768..1877, 2789..2830, 3352..3476, 4064..4134, 4254..4354		
Seq. No.	51328	Seq. ID	OJ991201_11.0421.C3
Gene No.	108743	Strand	-
Start	30	End	4354
Name	OJ991201_11.0421.C3.o1.gp	Method	AAT/GAP
Start	564	End	1819
GI	LIB3432-008-P1-K1-D4	Score	714
Exons	564..720, 865..955, 1041..1150, 1768..1819		
GI Descrip.	'1730738/sp P53946 ARP5_YEAST 4.0e-09 ACTIN-LIKE PROTEIN ARP5 >gi_2133044_pir_S58718 probable nuclear protein YNL059c - yeast (Saccharomyces cerevisiae) >gi_994827 (U12141) Ynl2430p [Saccharomyces cerevisiae] >gi_1301932_emb_CAA95933_ (Z71335) ORF YNL059c [Saccharomyces cerevisiae]'		
Seq. No.	51328	Seq. ID	OJ991201_11.0421.C3
Gene No.	108744	Strand	-
Start	6552	End	14986
Name	OJ991201_11.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	45	End	457
GI	none	Score	267
Exons	45..116, 286..456, 290..457		
Seq. No.	51328	Seq. ID	OJ991201_11.0421.C3
Gene No.	108744	Strand	-
Start	6552	End	14986
Name	OJ991201_11.0421.C3.o1.tc	Method	TBLASTX:Cress
Start	286	End	598
GI	none	Score	77
Exons	286..387, 287..388, 379..597, 380..454, 563..598		
Seq. No.	51328	Seq. ID	OJ991201_11.0421.C3
Gene No.	108744	Strand	-
Start	6552	End	14986
Name	OJ991201_11.0421.C3.o1.ts	Method	TBLASTX:Soybean
Start	379	End	597
GI	none	Score	72
Exons	379..597, 380..454, 520..597		
Seq. No.	51328	Seq. ID	OJ991201_11.0421.C3
Gene No.	108744	Strand	-
Start	6552	End	14986
Name	OJ991201_11.0421.C3.o1.tw	Method	TBLASTX:Wheat

Start	3349	End	4330
GI	none	Score	162
Exons	3349..3480, 3353..3478, 4058..4096, 4062..4133, 4063..4134, 4083..4136, 4090..4137, 4211..4276, 4248..4328, 4250..4330		

Seq. No.	51328	Seq. ID	OJ991201_11.0421.C3
Gene No.	108744	Strand	-
Start	6552	End	14986
Name	OJ991201_11.0421.C3.o2.np	Method	AAT/NAP
Start	6402	End	10292
GI	7488408	Score	316
Exons	6402..6425, 8404..8602, 9134..9264, 9391..9512, 9630..9662, 10262..10292		

GI Descrip. ubiquitin fusion-degradation protein UFD1 homolog T9I4.15 - Arabidopsis thaliana gi|3461847|gb|AAC33233.1| (AC005315)
putative ubiquitin fusion-degradation protein [Arabidopsis thaliana]

Seq. No.	51328	Seq. ID	OJ991201_11.0421.C3
Gene No.	108744	Strand	-
Start	6552	End	14986
Name	OJ991201_11.0421.C3.o2.gs	Method	GENSCAN
Start	6552	End	14986
GI	none	Score	.56
Exons	6552..7120, 7126..7307, 8171..8602, 9134..9264, 9391..9512, 9630..9662, 9763..9868, 10334..10545, 11412..11491, 12835..13296, 13940..14073, 14896..14986		

Seq. No.	51329	Seq. ID	OJ991201_11.0421.C6
Gene No.	108745	Strand	+
Start	110	End	568
Name	OJ991201_11.0421.C6.o1.gs	Method	GENSCAN
Start	110	End	568
GI	none	Score	.94
Exons	110..444, 466..568		

Seq. No.	51329	Seq. ID	OJ991201_11.0421.C6
Gene No.	108746	Strand	+
Start	4330	End	5916
Name	OJ991201_11.0421.C6.o3.gs	Method	GENSCAN
Start	4330	End	5916
GI	none	Score	.78
Exons	4330..4423, 5401..5586, 5666..5916		

Seq. No.	51329	Seq. ID	OJ991201_11.0421.C6
Gene No.	108747	Strand	+
Start	12157	End	15173
Name	OJ991201_11.0421.C6.o5.gs	Method	GENSCAN
Start	12157	End	15173
GI	none	Score	.92
Exons	12157..12178, 13727..13859, 14981..15173		

Seq. No.	51329	Seq. ID	OJ991201_11.0421.C6
Gene No.	108747	Strand	+
Start	12157	End	15173
Name	OJ991201_11.0421.C6.o1.np	Method	AAT/NAP
Start	12725	End	14986

GI 5922629 Score 115
 Exons 12725..12760, 13727..13867, 14962..14986
 GI Descrip. (AP000492) hypothetical protein [Oryza sativa]
 gi|6016862|dbj|BAA85205.1| (AP000570) hypothetical protein
 [Oryza sativa]

Seq. No.	51329	Seq. ID	OJ991201_11.0421.C6
Gene No.	108748	Strand	+
Start	20552	End	21031
Name	OJ991201_11.0421.C6.o2.gp	Method	AAT/GAP
Start	20552	End	21031
GI	none	Score	915
Exons	20552..21031		

Seq. No.	51329	Seq. ID	OJ991201_11.0421.C6
Gene No.	108749	Strand	-
Start	1523	End	2224
Name	OJ991201_11.0421.C6.o2.gs	Method	GENSCAN
Start	1523	End	2224
GI	none	Score	.42
Exons	1523..1608, 1912..2224		

Seq. No.	51329	Seq. ID	OJ991201_11.0421.C6
Gene No.	108750	Strand	-
Start	17278	End	18620
Name	OJ991201_11.0421.C6.o6.gs	Method	GENSCAN
Start	17278	End	18620
GI	none	Score	.95
Exons	17278..17347, 17891..17990, 18578..18620		

Seq. No.	51330	Seq. ID	OJ991201_11.0421.C7
Gene No.	108751	Strand	-
Start	973	End	1232
Name	OJ991201_11.0421.C7.o1.gs	Method	GENSCAN
Start	973	End	1232
GI	none	Score	.8
Exons	973..1232		

Seq. No.	51331	Seq. ID	OJ991201_11.0421.C8
Gene No.	108752	Strand	+
Start	905	End	3597
Name	OJ991201_11.0421.C8.o1.np	Method	AAT/NAP
Start	905	End	3597
GI	4388818	Score	1199
Exons	905..1035, 1529..3597		
GI Descrip.	(AC006528) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	51331	Seq. ID	OJ991201_11.0421.C8
Gene No.	108752	Strand	+
Start	905	End	3597
Name	OJ991201_11.0421.C8.o1.gs	Method	GENSCAN
Start	1440	End	3026
GI	none	Score	.87
Exons	1440..2552, 2691..3026		

Seq. No.	51331	Seq. ID	OJ991201_11.0421.C8
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Gene No.	108752	Strand	+
Start	905	End	3597
Name	OJ991201_11.0421.C8.o1.tw	Method	TBLASTX:Wheat
Start	1713	End	2138
GI	none	Score	172
Exons	1713..1865, 1733..1858, 1770..1856, 1854..1955, 1860..1949, 1862..1954, 1947..2006, 1972..2061, 2085..2138, 2093..2128		

Seq. No.	51331	Seq. ID	OJ991201_11.0421.C8
Gene No.	108752	Strand	+
Start	905	End	3597
Name	OJ991201_11.0421.C8.o1.gp	Method	AAT/GAP
Start	2692	End	3129
GI	2428449	Score	815
Exons	2692..3129		
GI Descrip.	4388818/gb AAD19773 3.0e-40 (AC006528) putative pol polyprotein with a Zn-finger CCHC type domain (prosite:QDOC50158) and a DDE integrase signature motif [Arabidopsis thaliana]		

Seq. No.	51331	Seq. ID	OJ991201_11.0421.C8
Gene No.	108752	Strand	+
Start	905	End	3597
Name	OJ991201_11.0421.C8.o2.tw	Method	TBLASTX:Wheat
Start	2856	End	3465
GI	none	Score	100
Exons	2856..3017, 2867..3004, 2991..3263, 3004..3306, 3403..3465		

Seq. No.	51331	Seq. ID	OJ991201_11.0421.C8
Gene No.	108752	Strand	+
Start	905	End	3597
Name	OJ991201_11.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	3061	End	3465
GI	none	Score	301
Exons	3061..3384, 3063..3335, 3400..3465		

Seq. No.	51331	Seq. ID	OJ991201_11.0421.C8
Gene No.	108752	Strand	+
Start	905	End	3597
Name	OJ991201_11.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	3076	End	3528
GI	none	Score	281
Exons	3076..3405, 3085..3330, 3105..3335, 3370..3528		

Seq. No.	51331	Seq. ID	OJ991201_11.0421.C8
Gene No.	108752	Strand	+
Start	905	End	3597
Name	OJ991201_11.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	3094	End	3561
GI	none	Score	173
Exons	3094..3387, 3370..3561, 3402..3524		

Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108753	Strand	+
Start	1	End	1504
Name	OJ991201_11.0421.C9.o1.np	Method	AAT/NAP
Start	1	End	1504
GI	130582	Score	1512

Exons 1..1504
 GI Descrip. RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94
 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE]
 gi|100342|pir||S04273 hypothetical protein - common tobacco
 gi|20045|emb|CAA32025| (X13777) ORF [Nicotiana tabacum]

Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108753	Strand	+
Start	1	End	1504
Name	OJ991201_11.0421.C9.o1.gp	Method	AAT/GAP
Start	299	End	541
GI	1621494	Score	438
Exons	299..541		
GI Descrip.	1621495/dbj BAA12903 4.0e-35 (D85877) reverse transcriptase [Oryza sativa]		

Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108754	Strand	+
Start	5032	End	5364
Name	OJ991201_11.0421.C9.o3.gs	Method	GENSCAN
Start	5032	End	5364
GI	none	Score	.93
Exons	5032..5364		

Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o3.tw	Method	TBLASTX:Wheat
Start	1	End	142
GI	none	Score	210
Exons	1..141, 2..142, 5..142		

Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o3.tm	Method	TBLASTX:Maize
Start	138	End	568
GI	none	Score	339
Exons	138..299, 140..568, 283..435		

Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o2.tc	Method	TBLASTX:Cress
Start	140	End	346
GI	none	Score	190
Exons	140..346, 140..346		

Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	143	End	922
GI	none	Score	321
Exons	143..451, 184..447, 251..448, 488..922, 544..678, 617..772, 739..903		

Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	164	End	553
GI	none	Score	378
Exons	164..553, 184..459, 185..478, 258..515		
Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	571	End	1017
GI	none	Score	129
Exons	571..663, 572..733, 690..791, 706..1017, 707..1012, 766..1014		
Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	896	End	1495
GI	none	Score	58
Exons	896..1024, 1019..1123, 1124..1249, 1286..1495		
Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o2.tw	Method	TBLASTX:Wheat
Start	1036	End	1471
GI	none	Score	152
Exons	1036..1218, 1049..1252, 1271..1471, 1280..1411		
Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	1073	End	1497
GI	none	Score	522
Exons	1073..1495, 1075..1497, 1396..1497		
Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o2.ts	Method	TBLASTX:Soybean
Start	1097	End	1495
GI	none	Score	304
Exons	1097..1372, 1099..1380, 1382..1495, 1396..1494		
Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o2.np	Method	AAT/NAP
Start	3060	End	6781
GI	6063557	Score	351
Exons	3060..3211, 3460..3646, 6755..6781		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o2.gs	Method	GENSCAN
Start	3090	End	4496
GI	none	Score	.45
Exons	3090..3238, 3460..3641, 4483..4496		

Seq. No.	51332	Seq. ID	OJ991201_11.0421.C9
Gene No.	108755	Strand	-
Start	3090	End	6811
Name	OJ991201_11.0421.C9.o4.gs	Method	GENSCAN
Start	5931	End	6811
GI	none	Score	.83
Exons	5931..6474, 6618..6811		

Seq. No.	51333	Seq. ID	OJ991201_11.0421.C10
Gene No.	108756	Strand	+
Start	287	End	723
Name	OJ991201_11.0421.C10.o1.gs	Method	GENSCAN
Start	287	End	723
GI	none	Score	.81
Exons	287..338, 484..634, 667..723		

Seq. No.	51333	Seq. ID	OJ991201_11.0421.C10
Gene No.	108756	Strand	+
Start	287	End	723
Name	OJ991201_11.0421.C10.o1.gp	Method	AAT/GAP
Start	388	End	671
GI	none	Score	526
Exons	388..671		

Seq. No.	51333	Seq. ID	OJ991201_11.0421.C10
Gene No.	108757	Strand	+
Start	1510	End	1981
Name	OJ991201_11.0421.C10.o2.gp	Method	AAT/GAP
Start	1510	End	1981
GI	LIB3431-019-P1-K1-D5	Score	799
Exons	1510..1981		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 1.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	51333	Seq. ID	OJ991201_11.0421.C10
Gene No.	108758	Strand	+
Start	5710	End	6278
Name	OJ991201_11.0421.C10.o3.gs	Method	GENSCAN
Start	5710	End	6278
GI	none	Score	.6
Exons	5710..6026, 6098..6278		

Seq. No.	51333	Seq. ID	OJ991201_11.0421.C10
Gene No.	108759	Strand	-
Start	1236	End	1711
Name	OJ991201_11.0421.C10.o2.gs	Method	GENSCAN
Start	1236	End	1711
GI	none	Score	.9
Exons	1236..1414, 1606..1711		

Seq. No.	51333	Seq. ID	OJ991201_11.0421.C10
Gene No.	108760	Strand	-
Start	6834	End	10638
Name	OJ991201_11.0421.C10.o4.gs	Method	GENSCAN
Start	6834	End	10638
GI	none	Score	.5
Exons	6834..7023, 10322..10638		

Seq. No.	51334	Seq. ID	OJ991201_11.0421.C11
Gene No.	108761	Strand	+
Start	1	End	1925
Name	OJ991201_11.0421.C11.o1.np	Method	AAT/NAP
Start	1	End	1841
GI	7340860	Score	71
Exons	1..25, 310..421, 1818..1841		
GI Descrip.	(AP001551) EST D24084(R1183) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51334	Seq. ID	OJ991201_11.0421.C11
Gene No.	108761	Strand	+
Start	1	End	1925
Name	OJ991201_11.0421.C11.o2.np	Method	AAT/NAP
Start	581	End	1925
GI	6630699	Score	85
Exons	581..603, 1843..1925		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	51334	Seq. ID	OJ991201_11.0421.C11
Gene No.	108762	Strand	+
Start	1934	End	4687
Name	OJ991201_11.0421.C11.o1.gs	Method	GENSCAN
Start	1934	End	2282
GI	none	Score	.5
Exons	1934..1979, 2107..2282		

Seq. No.	51334	Seq. ID	OJ991201_11.0421.C11
Gene No.	108762	Strand	+
Start	1934	End	4687
Name	OJ991201_11.0421.C11.o3.np	Method	AAT/NAP
Start	2061	End	4687
GI	6539570	Score	181
Exons	2061..2252, 2412..2478, 4663..4687		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	51334	Seq. ID	OJ991201_11.0421.C11
Gene No.	108763	Strand	+
Start	7632	End	8835
Name	OJ991201_11.0421.C11.o2.gs	Method	GENSCAN
Start	7632	End	8835
GI	none	Score	.6
Exons	7632..8034, 8594..8835		

Seq. No.	51335	Seq. ID	OJ991201_11.0421.C12
Gene No.	108764	Strand	+

Start	5720	End	13071
Name	OJ991201_11.0421.C12.o1.np	Method	AAT/NAP
Start	5342	End	9552
GI	7485501	Score	85
Exons	5342..5396, 6525..6622, 6671..6784, 9528..9552		
GI Descrip.	hypothetical protein F15B8.180 - Arabidopsis thaliana gi 4678284 emb CAB41192.1 (AL049660) putative protein [Arabidopsis thaliana]		

Seq. No.	51335	Seq. ID	OJ991201_11.0421.C12
Gene No.	108764	Strand	+
Start	5720	End	13071
Name	OJ991201_11.0421.C12.o2.gs	Method	GENSCAN
Start	5720	End	6257
GI	none	Score	.93
Exons	5720..5770, 5881..5949, 6048..6257		

Seq. No.	51335	Seq. ID	OJ991201_11.0421.C12
Gene No.	108764	Strand	+
Start	5720	End	13071
Name	OJ991201_11.0421.C12.o2.np	Method	AAT/NAP
Start	7548	End	7748
GI	3928087	Score	63
Exons	7548..7748		
GI Descrip.	(AC005770) unknown protein [Arabidopsis thaliana]		

Seq. No.	51335	Seq. ID	OJ991201_11.0421.C12
Gene No.	108764	Strand	+
Start	5720	End	13071
Name	OJ991201_11.0421.C12.o3.gs	Method	GENSCAN
Start	7557	End	13071
GI	none	Score	.6
Exons	7557..7675, 9040..9218, 10970..11216, 12185..12568, 12584..12656, 12859..13071		

Seq. No.	51335	Seq. ID	OJ991201_11.0421.C12
Gene No.	108765	Strand	+
Start	13262	End	13733
Name	OJ991201_11.0421.C12.o2.gp	Method	AAT/GAP
Start	13262	End	13733
GI	LIB3431-019-P1-K1-D5	Score	747
Exons	13262..13733		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 1.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	51335	Seq. ID	OJ991201_11.0421.C12
Gene No.	108766	Strand	-
Start	8623	End	13718
Name	OJ991201_11.0421.C12.o3.np	Method	AAT/NAP
Start	8623	End	13718
GI	7523516	Score	71
Exons	8623..8694, 8763..8888, 11917..11956, 13659..13718		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	51335	Seq. ID	OJ991201_11.0421.C12
Gene No.	108766	Strand	-
Start	8623	End	13718

Name OJ991201_11.0421.C12.o1.gp
 Start 12186
 GI none
 Exons 12186..12625

Method AAT/GAP
 End 12625
 Score 564

Seq. No. 51335
 Gene No. 108766
 Start 8623
 Name OJ991201_11.0421.C12.o4.gs
 Start 13200
 GI none
 Exons 13200..13463

Seq. ID OJ991201_11.0421.C12
 Strand -
 End 13718
 Method GENSCAN
 End 13463
 Score .99

Seq. No. 51336
 Gene No. 108767
 Start 648
 Name OJ991201_11.0421.C13.o1.gs
 Start 648
 GI none
 Exons 648..670, 982..1081

Seq. ID OJ991201_11.0421.C13
 Strand +
 End 1081
 Method GENSCAN
 End 1081
 Score .41

Seq. No. 51337
 Gene No. 108768
 Start 2361
 Name OJ991201_11.0421.C14.o1.tm
 Start 2361
 GI none
 Exons 2361..2465, 2468..2614

Seq. ID OJ991201_11.0421.C14
 Strand +
 End 2614
 Method TBLASTX:Maize
 End 2614
 Score 125

Seq. No. 51338
 Gene No. 108769
 Start 376
 Name OJ991201_11.0421.C15.o1.gs
 Start 376
 GI none
 Exons 376..449

Seq. ID OJ991201_11.0421.C15
 Strand +
 End 449
 Method GENSCAN
 End 449
 Score .42

Seq. No. 51338
 Gene No. 108770
 Start 907
 Name OJ991201_11.0421.C15.o2.gs
 Start 907
 GI none
 Exons 907..1011, 2235..2356

Seq. ID OJ991201_11.0421.C15
 Strand -
 End 2356
 Method GENSCAN
 End 2356
 Score .79

Seq. No. 51339
 Gene No. 108771
 Start 56
 Name OJ991201_11.0421.C16.o1.gs
 Start 56
 GI none
 Exons 56..157

Seq. ID OJ991201_11.0421.C16
 Strand +
 End 157
 Method GENSCAN
 End 157
 Score .98

Seq. No. 51339
 Gene No. 108772
 Start 1251
 Name OJ991201_11.0421.C16.o2.gs

Seq. ID OJ991201_11.0421.C16
 Strand -
 End 2059
 Method GENSCAN

Start 1251
GI none
Exons 1251..1965

End 1965
Score .72

Seq. No. 51339 Seq. ID OJ991201_11.0421.C16
Gene No. 108772 Strand -
Start 1251 End 2059
Name OJ991201_11.0421.C16.o1.np Method AAT/NAP
Start 1254 End 2059
GI 6539553 Score 1344
Exons 1254..2059
GI Descrip. (AP000836) Similar to Oryza australiensis retrotransposon RIRE1
(D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837)
Similar to Oryza australiensis retrotransposon RIRE1 (D85597)
[Oryza sativa]

Seq. No. 51339 Seq. ID OJ991201_11.0421.C16
Gene No. 108772 Strand -
Start 1251 End 2059
Name OJ991201_11.0421.C16.o1.tw Method TBLASTX:Wheat
Start 1390 End 1866
GI none Score 353
Exons 1390..1776, 1391..1774, 1428..1775, 1791..1865, 1795..1866

Seq. No. 51339 Seq. ID OJ991201_11.0421.C16
Gene No. 108772 Strand -
Start 1251 End 2059
Name OJ991201_11.0421.C16.o1.ts Method TBLASTX:Soybean
Start 1518 End 1859
GI none Score 83
Exons 1518..1727, 1597..1722, 1746..1859, 1753..1833

Seq. No. 51339 Seq. ID OJ991201_11.0421.C16
Gene No. 108772 Strand -
Start 1251 End 2059
Name OJ991201_11.0421.C16.o1.tm Method TBLASTX:Maize
Start 1722 End 2045
GI none Score 193
Exons 1722..2045, 1723..2040

Seq. No. 51340 Seq. ID OJ991201_11.0421.C17
Gene No. 108773 Strand -
Start 1 End 745
Name OJ991201_11.0421.C17.o1.np Method AAT/NAP
Start 1 End 745
GI 6539553 Score 1278
Exons 1..745
GI Descrip. (AP000836) Similar to Oryza australiensis retrotransposon RIRE1
(D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837)
Similar to Oryza australiensis retrotransposon RIRE1 (D85597)
[Oryza sativa]

Seq. No. 51340 Seq. ID OJ991201_11.0421.C17
Gene No. 108773 Strand -
Start 1 End 745
Name OJ991201_11.0421.C17.o1.gs Method GENSCAN
Start 18 End 501

GI	none	Score	.76
Exons	18..501		
Seq. No.	51340	Seq. ID	OJ991201_11.0421.C17
Gene No.	108773	Strand	-
Start	1	End	745
Name	OJ991201_11.0421.C17.o1.tw	Method	TBLASTX:Wheat
Start	22	End	662
GI	none	Score	55
Exons	22..66, 24..146, 26..124, 26..154, 27..155, 175..654, 198..662		
Seq. No.	51340	Seq. ID	OJ991201_11.0421.C17
Gene No.	108773	Strand	-
Start	1	End	745
Name	OJ991201_11.0421.C17.o1.tc	Method	TBLASTX:Cress
Start	288	End	677
GI	none	Score	112
Exons	288..482, 495..677		
Seq. No.	51340	Seq. ID	OJ991201_11.0421.C17
Gene No.	108773	Strand	-
Start	1	End	745
Name	OJ991201_11.0421.C17.o1.tm	Method	TBLASTX:Maize
Start	312	End	743
GI	none	Score	68
Exons	312..479, 498..743, 522..677, 532..741		
Seq. No.	51340	Seq. ID	OJ991201_11.0421.C17
Gene No.	108773	Strand	-
Start	1	End	745
Name	OJ991201_11.0421.C17.o1.ts	Method	TBLASTX:Soybean
Start	312	End	710
GI	none	Score	38
Exons	312..485, 439..477, 486..710, 531..701, 532..702		
Seq. No.	51341	Seq. ID	OJ991201_11.0421.C21
Gene No.	108774	Strand	-
Start	290	End	1085
Name	OJ991201_11.0421.C21.o1.gs	Method	GENSCAN
Start	290	End	1085
GI	none	Score	.67
Exons	290..412, 875..1085		
Seq. No.	51342	Seq. ID	OJ991201_11.0421.C22
Gene No.	108775	Strand	+
Start	35	End	1051
Name	OJ991201_11.0421.C22.o1.gs	Method	GENSCAN
Start	35	End	1051
GI	none	Score	.41
Exons	35..200, 861..1051		
Seq. No.	51342	Seq. ID	OJ991201_11.0421.C22
Gene No.	108776	Strand	-
Start	1	End	638
Name	OJ991201_11.0421.C22.o1.np	Method	AAT/NAP
Start	1	End	623
GI	6539553	Score	1013

Exons 1..623
 GI Descrip. (AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]

Seq. No.	51342	Seq. ID	OJ991201_11.0421.C22
Gene No.	108776	Strand	-
Start	1	End	638
Name	OJ991201_11.0421.C22.o1.tm	Method	TBLASTX:Maize
Start	182	End	476
GI	none	Score	277
Exons	182..457, 184..456, 186..476		

Seq. No.	51342	Seq. ID	OJ991201_11.0421.C22
Gene No.	108776	Strand	-
Start	1	End	638
Name	OJ991201_11.0421.C22.o1.tw	Method	TBLASTX:Wheat
Start	244	End	638
GI	none	Score	180
Exons	244..471, 245..451, 415..618, 456..638		

Seq. No.	51343	Seq. ID	OJ991201_11.0421.C23
Gene No.	108777	Strand	-
Start	631	End	1168
Name	OJ991201_11.0421.C23.o1.gs	Method	GENSCAN
Start	631	End	1168
GI	none	Score	.54
Exons	631..716, 891..1168		

Seq. No.	51344	Seq. ID	OJ991201_11.0421.C25
Gene No.	108778	Strand	+
Start	57	End	204
Name	OJ991201_11.0421.C25.o1.gs	Method	GENSCAN
Start	57	End	204
GI	none	Score	.6
Exons	57..204		

Seq. No.	51344	Seq. ID	OJ991201_11.0421.C25
Gene No.	108779	Strand	-
Start	289	End	611
Name	OJ991201_11.0421.C25.o2.gs	Method	GENSCAN
Start	289	End	611
GI	none	Score	.83
Exons	289..344, 428..611		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108780	Strand	+
Start	3629	End	5630
Name	OJ991201_10.0421.C3.o2.gs	Method	GENSCAN
Start	3629	End	5630
GI	none	Score	.81
Exons	3629..3743, 4076..4122, 4986..5337, 5470..5630		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108781	Strand	+
Start	7263	End	23700

Name	OJ991201_10.0421.C3.o2.np	Method	AAT/NAP
Start	7236	End	16468
GI	3617770	Score	1989
Exons	7236..7465, 8006..8243, 8409..8468, 8560..8649, 8860..8935, 9261..9389, 9472..9561, 10061..10149, 10243..10339, 10454..10540, 10644..10728, 12133..12227, 12327..12359, 12684..12770, 13715..13807, 14373..14465, 14544..14765, 15772..15843, 16093..16164, 16376..16468		

GI Descrip. (Y14329) threonyl-tRNA synthetase [Arabidopsis thaliana]

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108781	Strand	+
Start	7263	End	23700
Name	OJ991201_10.0421.C3.o3.gs	Method	GENSCAN
Start	7263	End	23700
GI	none	Score	.74
Exons	7263..7465, 8006..8243, 8560..8649, 9261..9389, 9472..9561, 10454..10540, 10644..10728, 11308..11523, 12133..12227, 12684..12770, 13715..13807, 14373..14465, 14544..14765, 15772..15843, 16093..16164, 16376..16453, 23539..23700		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108782	Strand	+
Start	25543	End	38414
Name	OJ991201_10.0421.C3.o4.gs	Method	GENSCAN
Start	25543	End	35340
GI	none	Score	.76
Exons	25543..25560, 25878..26009, 27068..27185, 27718..27798, 28660..28730, 28983..29123, 30327..30491, 30583..30654, 31138..31252, 31976..32329, 33357..33697, 34684..35052, 35335..35340		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108782	Strand	+
Start	25543	End	38414
Name	OJ991201_10.0421.C3.o4.np	Method	AAT/NAP
Start	25902	End	38414
GI	3941736	Score	59
Exons	25902..26009, 27068..27191, 27727..27791, 38385..38414		
GI Descrip.	(AF109719) BAT3 [Mus musculus]		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108783	Strand	-
Start	983	End	3336
Name	OJ991201_10.0421.C3.o1.gs	Method	GENSCAN
Start	983	End	3336
GI	none	Score	.66
Exons	983..1156, 1297..1638, 1720..2897, 3048..3189, 3286..3336		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108784	Strand	-
Start	20187	End	21612
Name	OJ991201_10.0421.C3.o1.tc	Method	TBLASTX:Cress
Start	7347	End	16465
GI	none	Score	77
Exons	7347..7466, 7953..7976, 7979..8239, 8004..8243, 8016..8252, 8406..8468, 8411..8467, 8557..8673, 8559..8642, 8857..8925,		

9232..9366, 9254..9388, 9255..9389, 9471..9545, 9472..9561,
 10049..10147, 10061..10147, 10240..10341, 10241..10342,
 10445..10543, 10451..10540, 10643..10726, 10644..10727,
 12131..12247, 12132..12248, 12681..12770, 13714..13803,
 13715..13801, 14373..14468, 14378..14467, 14538..14771,
 14538..14735, 14540..14776, 14639..14767, 15760..15846,
 16090..16167, 16092..16202, 16373..16465

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108784	Strand	-
Start	20187	End	21612
Name	OJ991201_10.0421.C3.o2.tm	Method	TBLASTX:Maize
Start	7349	End	10521
GI	none	Score	140
Exons	7349..7465, 7359..7466, 8003..8149, 8004..8243, 8007..8255, 8406..8468, 8407..8469, 8408..8467, 8413..8469, 8557..8673, 8558..8668, 8853..8924, 8854..8925, 8858..8950, 8860..8949, 9255..9377, 9260..9364, 9366..9389, 9468..9566, 9472..9558, 9484..9567, 10053..10148, 10061..10144, 10234..10341, 10241..10342, 10439..10519, 10445..10519, 10452..10520, 10453..10521, 10453..10521		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108784	Strand	-
Start	20187	End	21612
Name	OJ991201_10.0421.C3.o3.ts	Method	TBLASTX:Soybean
Start	7359	End	8144
GI	none	Score	91
Exons	7359..7466, 8003..8143, 8004..8144		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108784	Strand	-
Start	20187	End	21612
Name	OJ991201_10.0421.C3.o2.ts	Method	TBLASTX:Soybean
Start	8145	End	13810
GI	none	Score	156
Exons	8145..8243, 8406..8468, 8408..8479, 8408..8473, 8563..8673, 8853..8921, 8854..8925, 9255..9389, 9255..9371, 9260..9385, 9468..9566, 9472..9561, 10061..10144, 10234..10341, 10241..10342, 10445..10543, 10445..10534, 10462..10563, 10629..10727, 10637..10729, 10637..10726, 10641..10739, 12131..12229, 12132..12248, 12318..12362, 12328..12363, 12329..12364, 12681..12770, 12683..12769, 13714..13806, 13715..13810		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108784	Strand	-
Start	20187	End	21612
Name	OJ991201_10.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	10686	End	16477
GI	none	Score	68
Exons	10686..10727, 12130..12228, 12131..12247, 12131..12229, 12132..12248, 12319..12357, 12326..12364, 12681..12770, 12681..12752, 12682..12771, 12683..12769, 13714..13803, 13714..13803, 13715..13810, 14370..14468, 14372..14467, 14538..14768, 14538..14765, 14539..14766, 14540..14767, 15751..15846, 15771..15845, 15787..15846, 16088..16159,		

16090..16167, 16092..16160, 16376..16477, 16379..16477

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108784	Strand	-
Start	20187	End	21612
Name	OJ991201_10.0421.C3.o1.ts	Method	TBLASTX:Soybean
Start	14354	End	16474
GI	none	Score	80
Exons	14354..14458, 14361..14468, 14364..14477, 14369..14500, 14538..14771, 14540..14767, 14579..14776, 14590..14775, 15760..15846, 16090..16167, 16092..16175, 16373..16474		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108784	Strand	-
Start	20187	End	21612
Name	OJ991201_10.0421.C3.o3.np	Method	AAT/NAP
Start	20187	End	21612
GI	5852084	Score	99
Exons	20187..20301, 21573..21612		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108785	Strand	-
Start	25935	End	27800
Name	OJ991201_10.0421.C3.o5.tm	Method	TBLASTX:Maize
Start	25935	End	27800
GI	none	Score	110
Exons	25935..26012, 25935..26012, 27040..27180, 27062..27190, 27068..27190, 27719..27796, 27720..27797, 27723..27800		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108785	Strand	-
Start	25935	End	27800
Name	OJ991201_10.0421.C3.o4.tm	Method	TBLASTX:Maize
Start	26598	End	26891
GI	none	Score	159
Exons	26598..26741, 26602..26865, 26609..26743, 26736..26834, 26744..26881, 26821..26883, 26847..26891		

Seq. No.	51345	Seq. ID	OJ991201_10.0421.C3
Gene No.	108786	Strand	-
Start	29238	End	33876
Name	OJ991201_10.0421.C3.o3.tm	Method	TBLASTX:Maize
Start	29238	End	33876
GI	none	Score	65
Exons	29238..29306, 29455..29562, 29457..29561, 30321..30491, 30322..30492, 30341..30484, 30345..30485, 30355..30513, 30582..30653, 30583..30654, 30583..30654, 31161..31253, 31164..31253, 31165..31254, 31165..31266, 31975..32013, 32029..32211, 32061..32210, 32187..32264, 32188..32265, 32263..32331, 32286..32330, 33342..33452, 33352..33453, 33355..33453, 33356..33454, 33454..33525, 33509..33649, 33512..33691, 33526..33696, 33537..33698, 33621..33698, 33766..33876, 33766..33873		

Seq. No.	51346	Seq. ID	OJ991201_10.0421.C4
Gene No.	108787	Strand	+

Start	2054	End	6465
Name	OJ991201_10.0421.C4.o1.gs	Method	GENSCAN
Start	2054	End	6465
GI	none	Score	.64
Exons	2054..2180, 4286..4536, 4622..4945, 4994..5099, 5459..5670, 5766..6181, 6262..6465		

Seq. No.	51346	Seq. ID	OJ991201_10.0421.C4
Gene No.	108788	Strand	+
Start	8784	End	10659
Name	OJ991201_10.0421.C4.o2.gs	Method	GENSCAN
Start	8784	End	10659
GI	none	Score	.55
Exons	8784..8809, 9222..9362, 9815..10205, 10346..10659		

Seq. No.	51347	Seq. ID	OJ991201_10.0421.C5
Gene No.	108789	Strand	+
Start	156	End	559
Name	OJ991201_10.0421.C5.o1.gs	Method	GENSCAN
Start	156	End	559
GI	none	Score	.91
Exons	156..265, 437..559		

Seq. No.	51347	Seq. ID	OJ991201_10.0421.C5
Gene No.	108790	Strand	-
Start	1434	End	1541
Name	OJ991201_10.0421.C5.o2.gs	Method	GENSCAN
Start	1434	End	1541
GI	none	Score	.53
Exons	1434..1541		

Seq. No.	51348	Seq. ID	OJ991201_10.0421.C6
Gene No.	108791	Strand	-
Start	1	End	2399
Name	OJ991201_10.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	1001
GI	7363272	Score	137
Exons	1..202, 933..1001		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	51348	Seq. ID	OJ991201_10.0421.C6
Gene No.	108791	Strand	-
Start	1	End	2399
Name	OJ991201_10.0421.C6.o1.gs	Method	GENSCAN
Start	840	End	2399
GI	none	Score	.66
Exons	840..920, 934..1052, 1528..1596, 2249..2399		

Seq. No.	51349	Seq. ID	OJ991201_10.0421.C7
Gene No.	108792	Strand	+
Start	357	End	1001
Name	OJ991201_10.0421.C7.o1.gs	Method	GENSCAN
Start	357	End	1001
GI	none	Score	.64
Exons	357..392, 487..681, 687..1001		

Seq. No.	51349	Seq. ID	OJ991201_10.0421.C7
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Gene No. 108793
 Start 1484
 Name OJ991201_10.0421.C7.o2.gs
 Start 1484
 GI none
 Exons 1484..1915

Strand -
 End 1915
 Method GENSCAN
 End 1915
 Score .61

Seq. No. 51350
 Gene No. 108794
 Start 860
 Name OJ991201_10.0421.C8.o1.gs
 Start 860
 GI none
 Exons 860..974, 1158..1291

Seq. ID OJ991201_10.0421.C8
 Strand +
 End 1291
 Method GENSCAN
 End 1291
 Score .53

Seq. No. 51351
 Gene No. 108795
 Start 302
 Name OJ991201_10.0421.C9.o1.gs
 Start 302
 GI none
 Exons 302..384, 466..674, 1770..1902

Seq. ID OJ991201_10.0421.C9
 Strand +
 End 1902
 Method GENSCAN
 End 1902
 Score .83

Seq. No. 51351
 Gene No. 108796
 Start 2097
 Name OJ991201_10.0421.C9.o2.np
 Start 2097
 GI 6539553
 Exons 2097..2222

Seq. ID OJ991201_10.0421.C9
 Strand +
 End 2222
 Method AAT/NAP
 End 2222
 Score 186

GI Descrip. (AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]

Seq. No. 51351
 Gene No. 108797
 Start 2896
 Name OJ991201_10.0421.C9.o1.tm
 Start 126
 GI none
 Exons 126..185, 127..186, 187..297, 188..301

Seq. ID OJ991201_10.0421.C9
 Strand -
 End 3069
 Method TBLASTX:Maize
 End 301
 Score 102

Seq. No. 51351
 Gene No. 108797
 Start 2896
 Name OJ991201_10.0421.C9.o3.np
 Start 2896
 GI 6063554
 Exons 2896..3069

Seq. ID OJ991201_10.0421.C9
 Strand -
 End 3069
 Method AAT/NAP
 End 3069
 Score 182

GI Descrip. (AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No. 51352
 Gene No. 108798
 Start 83

Seq. ID OJ991201_10.0421.C10
 Strand +
 End 5673

Name	OJ991201_10.0421.C10.o1.gs	Method	GENSCAN
Start	83	End	5673
GI	none	Score	.5
Exons	83..554, 560..665, 1094..1175, 3604..3769, 3792..4142, 4170..4447, 4941..5051, 5561..5673		
Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108798	Strand	+
Start	83	End	5673
Name	OJ991201_10.0421.C10.o1.gp	Method	AAT/GAP
Start	1660	End	2040
GI	uC-osflcyp033a04b1	Score	662
Exons	1660..2040		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o6.tm	Method	TBLASTX:Maize
Start	4849	End	5095
GI	none	Score	48
Exons	4849..4881, 4849..4884, 4895..5095, 4928..5068		
Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o1.np	Method	AAT/NAP
Start	4859	End	9675
GI	4680179	Score	5409
Exons	4859..8241, 8269..9204, 9570..9675		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o6.tw	Method	TBLASTX:Wheat
Start	4904	End	5237
GI	none	Score	79
Exons	4904..5236, 4925..5086, 4956..5237		
Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	5099	End	5684
GI	none	Score	83
Exons	5099..5524, 5100..5306, 5120..5368, 5290..5379, 5394..5525, 5522..5683, 5529..5684		
Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o1.tw	Method	TBLASTX:Wheat
Start	5237	End	5863
GI	none	Score	51
Exons	5237..5863, 5238..5306, 5358..5861		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o3.tm	Method	TBLASTX:Maize
Start	5733	End	6024
GI	none	Score	99
Exons	5733..5804, 5735..6022, 5823..6023, 5839..6024, 5926..6024		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o2.ts	Method	TBLASTX:Soybean
Start	5822	End	6082
GI	none	Score	170
Exons	5822..6082, 5823..6077, 5831..6079		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o1.tc	Method	TBLASTX:Cress
Start	5846	End	6184
GI	none	Score	83
Exons	5846..5989, 5847..5987, 5990..6184		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o2.tw	Method	TBLASTX:Wheat
Start	5870	End	6396
GI	none	Score	254
Exons	5870..6178, 5874..6152, 6175..6396, 6176..6244		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o2.tm	Method	TBLASTX:Maize
Start	6436	End	6757
GI	none	Score	172
Exons	6436..6756, 6443..6757		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o3.tw	Method	TBLASTX:Wheat
Start	6436	End	6860
GI	none	Score	206
Exons	6436..6744, 6436..6750, 6443..6751, 6750..6860, 6751..6858		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o5.tm	Method	TBLASTX:Maize
Start	6762	End	7127
GI	none	Score	300
Exons	6762..7127		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o5.tw	Method	TBLASTX:Wheat
Start	6861	End	7149
GI	none	Score	127
Exons	6861..7121, 6861..7124, 6862..7125, 6869..7144, 7057..7149		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o1.ts	Method	TBLASTX:Soybean
Start	6876	End	7271
GI	none	Score	116
Exons	6876..7127, 6982..7119, 7182..7235, 7192..7233, 7239..7271, 7239..7271		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o4.tm	Method	TBLASTX:Maize
Start	7182	End	7629
GI	none	Score	63
Exons	7182..7625, 7396..7629		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o4.tw	Method	TBLASTX:Wheat
Start	7212	End	7695
GI	none	Score	198
Exons	7212..7694, 7215..7583, 7393..7695		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o3.ts	Method	TBLASTX:Soybean
Start	7344	End	7658
GI	none	Score	191
Exons	7344..7658		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o7.tm	Method	TBLASTX:Maize
Start	7632	End	7793
GI	none	Score	89
Exons	7632..7793, 7678..7785		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o8.tw	Method	TBLASTX:Wheat
Start	7827	End	8169
GI	none	Score	146
Exons	7827..8009, 8008..8169		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o7.tw	Method	TBLASTX:Wheat
Start	8735	End	9094
GI	none	Score	79
Exons	8735..9094, 8736..8891, 8738..9061, 8991..9068		

Seq. No.	51352	Seq. ID	OJ991201_10.0421.C10
Gene No.	108799	Strand	-
Start	4859	End	10354
Name	OJ991201_10.0421.C10.o2.np	Method	AAT/NAP
Start	9558	End	10354
GI	4512231	Score	1149
Exons	9558..10354		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108800	Strand	+
Start	642	End	12491
Name	OJ991201_10.0421.C11.o2.np	Method	AAT/NAP
Start	642	End	1168
GI	5852179	Score	225
Exons	642..847, 922..1168		

GI Descrip. (AL117265) zhb0009.1 [Oryza sativa]

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108800	Strand	+
Start	642	End	12491
Name	OJ991201_10.0421.C11.o3.np	Method	AAT/NAP
Start	651	End	9532
GI	6539553	Score	3157
Exons	651..697, 1811..2142, 3503..4375, 4792..5656, 6698..7199, 7366..7660, 8547..9532		

GI Descrip. (AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108800	Strand	+
Start	642	End	12491
Name	OJ991201_10.0421.C11.o3.gs	Method	GENSCAN
Start	7342	End	12491
GI	none	Score	.66
Exons	7342..7522, 7666..7912, 8069..8224, 8596..9014, 9279..9531, 10839..10873, 11769..12016, 12036..12219, 12250..12491		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108801	Strand	+
Start	13008	End	13321
Name	OJ991201_10.0421.C11.o6.np	Method	AAT/NAP
Start	13008	End	13321
GI	7248393	Score	158
Exons	13008..13321		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108802	Strand	-
Start	327	End	3859
Name	OJ991201_10.0421.C11.o1.np	Method	AAT/NAP
Start	327	End	1173
GI	5852178	Score	390
Exons	327..424, 736..846, 878..1173		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108802	Strand	-
Start	327	End	3859
Name	OJ991201_10.0421.C11.o1.gs	Method	GENSCAN
Start	732	End	3859
GI	none	Score	.6
Exons	732..837, 870..1138, 1900..1977, 2139..2240, 3049..3124, 3852..3859		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108803	Strand	-
Start	5312	End	6453
Name	OJ991201_10.0421.C11.o2.gs	Method	GENSCAN
Start	5312	End	6453
GI	none	Score	.95
Exons	5312..5694, 6375..6453		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108804	Strand	-
Start	7031	End	7341
Name	OJ991201_10.0421.C11.o2.gp	Method	AAT/GAP
Start	7031	End	7341
GI	61605_3.R1084	Score	424
Exons	7031..7341		
GI Descrip.	'1402920/emb CAA66965 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108805	Strand	-
Start	10605	End	12228
Name	OJ991201_10.0421.C11.o4.np	Method	AAT/NAP
Start	10605	End	12158
GI	6063554	Score	177
Exons	10605..10781, 11451..11479, 11942..12158		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108805	Strand	-
Start	10605	End	12228
Name	OJ991201_10.0421.C11.o5.np	Method	AAT/NAP
Start	11334	End	12228
GI	5852178	Score	523
Exons	11334..11429, 11794..11898, 11930..12228		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
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Gene No.	108806	Strand	-
Start	12995	End	13131
Name	OJ991201_10.0421.C11.o2.tw	Method	TBLASTX:Wheat
Start	1873	End	2133
GI	none	Score	219
Exons	1873..2133, 1881..2132		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108806	Strand	-
Start	12995	End	13131
Name	OJ991201_10.0421.C11.o2.tm	Method	TBLASTX:Maize
Start	1882	End	2156
GI	none	Score	276
Exons	1882..2136, 1890..2135, 1905..2156, 1937..2140		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108806	Strand	-
Start	12995	End	13131
Name	OJ991201_10.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	4051	End	4372
GI	none	Score	200
Exons	4051..4305, 4058..4372, 4081..4368		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108806	Strand	-
Start	12995	End	13131
Name	OJ991201_10.0421.C11.o3.ts	Method	TBLASTX:Soybean
Start	7438	End	7659
GI	none	Score	195
Exons	7438..7659, 7440..7604		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108806	Strand	-
Start	12995	End	13131
Name	OJ991201_10.0421.C11.o1.ts	Method	TBLASTX:Soybean
Start	8563	End	8914
GI	none	Score	222
Exons	8563..8769, 8570..8914		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108806	Strand	-
Start	12995	End	13131
Name	OJ991201_10.0421.C11.o3.tm	Method	TBLASTX:Maize
Start	8740	End	9048
GI	none	Score	218
Exons	8740..9048, 8831..9046		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108806	Strand	-
Start	12995	End	13131
Name	OJ991201_10.0421.C11.o1.tw	Method	TBLASTX:Wheat
Start	8914	End	9396
GI	none	Score	104
Exons	8914..8991, 8921..8995, 8921..9001, 9010..9396, 9011..9358		

Seq. No.	51353	Seq. ID	OJ991201_10.0421.C11
Gene No.	108806	Strand	-

Start 12995
 Name OJ991201_10.0421.C11.o2.ts
 Start 8918
 GI none
 Exons 8918..9040, 9032..9283

End 13131
 Method TBLASTX:Soybean
 End 9283
 Score 93

Seq. No. 51353
 Gene No. 108806
 Start 12995
 Name OJ991201_10.0421.C11.o4.gs
 Start 12995
 GI none
 Exons 12995..13131

Seq. ID OJ991201_10.0421.C11
 Strand -
 End 13131
 Method GENSCAN
 End 13131
 Score .84

Seq. No. 51354
 Gene No. 108807
 Start 1277
 Name OJ991201_10.0421.C12.o2.gs
 Start 1277
 GI none
 Exons 1277..1755, 1882..2319, 2485..2760, 2876..3353, 3432..4921, 4970..5158, 5195..5313, 5581..6173

Seq. ID OJ991201_10.0421.C12
 Strand +
 End 6173
 Method GENSCAN
 End 6173
 Score .67

Seq. No. 51354
 Gene No. 108807
 Start 1277
 Name OJ991201_10.0421.C12.o1.np
 Start 2234
 GI 7248394
 Exons 2234..3156, 3424..4458
 GI Descrip. (AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)

Seq. ID OJ991201_10.0421.C12
 Strand +
 End 6173
 Method AAT/NAP
 End 4458
 Score 1729

Seq. No. 51354
 Gene No. 108808
 Start 13948
 Name OJ991201_10.0421.C12.o4.gs
 Start 13948
 GI none
 Exons 13948..14535

Seq. ID OJ991201_10.0421.C12
 Strand +
 End 14535
 Method GENSCAN
 End 14535
 Score 1

Seq. No. 51354
 Gene No. 108809
 Start 22
 Name OJ991201_10.0421.C12.o1.gs
 Start 22
 GI none
 Exons 22..674, 908..1037

Seq. ID OJ991201_10.0421.C12
 Strand -
 End 1037
 Method GENSCAN
 End 1037
 Score .99

Seq. No. 51354
 Gene No. 108810
 Start 6630
 Name OJ991201_10.0421.C12.o6.ts
 Start 2378

Seq. ID OJ991201_10.0421.C12
 Strand -
 End 11414
 Method TBLASTX:Soybean
 End 2716

GI	none	Score	197
Exons	2378..2716		
Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o5.ts	Method	TBLASTX:Soybean
Start	3126	End	3491
GI	none	Score	129
Exons	3126..3350, 3137..3349, 3357..3491		
Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o1.tw	Method	TBLASTX:Wheat
Start	3288	End	3673
GI	none	Score	73
Exons	3288..3344, 3339..3671, 3347..3643, 3476..3673		
Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o2.tm	Method	TBLASTX:Maize
Start	3342	End	3560
GI	none	Score	269
Exons	3342..3560, 3347..3559		
Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	3561	End	4001
GI	none	Score	372
Exons	3561..3932, 3561..3923, 3920..4000, 3921..4001		
Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o2.ts	Method	TBLASTX:Soybean
Start	3708	End	4157
GI	none	Score	163
Exons	3708..3959, 3746..3814, 3969..4157, 4013..4144		
Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o1.ts	Method	TBLASTX:Soybean
Start	4308	End	4720
GI	none	Score	148
Exons	4308..4445, 4310..4441, 4389..4445, 4466..4720, 4467..4718		
Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o3.tw	Method	TBLASTX:Wheat
Start	4353	End	4751
GI	none	Score	81

Exons 4353..4442, 4482..4751, 4493..4558, 4580..4729

Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o3.tm	Method	TBLASTX:Maize
Start	4959	End	5315
GI	none	Score	212
Exons	4959..5315		

Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o4.tw	Method	TBLASTX:Wheat
Start	5010	End	5402
GI	none	Score	108
Exons	5010..5174, 5208..5315, 5346..5402		

Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o3.ts	Method	TBLASTX:Soybean
Start	5172	End	5480
GI	none	Score	223
Exons	5172..5480, 5276..5392		

Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o2.tw	Method	TBLASTX:Wheat
Start	5730	End	6137
GI	none	Score	223
Exons	5730..6137, 5738..6103		

Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o4.ts	Method	TBLASTX:Soybean
Start	5913	End	6158
GI	none	Score	222
Exons	5913..6158, 5915..6052		

Seq. No.	51354	Seq. ID	OJ991201_10.0421.C12
Gene No.	108810	Strand	-
Start	6630	End	11414
Name	OJ991201_10.0421.C12.o3.gs	Method	GENSCAN
Start	6630	End	11414
GI	none	Score	.59
Exons	6630..6989, 7110..7265, 7347..7460, 7528..7587, 7663..8097, 8176..9412, 9414..9614, 9740..9882, 10490..10580, 11329..11414		

Seq. No.	51355	Seq. ID	OJ991201_10.0421.C14
Gene No.	108811	Strand	+
Start	1795	End	5187
Name	OJ991201_10.0421.C14.o1.gs	Method	GENSCAN
Start	1795	End	5187
GI	none	Score	.85

Exons 1795..1855, 1878..3953, 4111..4272, 5150..5187

Seq. No.	51355	Seq. ID	OJ991201_10.0421.C14
Gene No.	108812	Strand	+
Start	8923	End	12777
Name	OJ991201_10.0421.C14.o3.np	Method	AAT/NAP
Start	8923	End	12777
GI	122033	Score	145
Exons	8923..9083, 12475..12777		
GI Descrip.	HISTONE H2B.2 gi 70732 pir HSWT2B histone H2B.2 - wheat		

Seq. No.	51355	Seq. ID	OJ991201_10.0421.C14
Gene No.	108813	Strand	+
Start	14246	End	15907
Name	OJ991201_10.0421.C14.o4.gs	Method	GENSCAN
Start	14246	End	15907
GI	none	Score	.89
Exons	14246..14329, 15461..15907		

Seq. No.	51355	Seq. ID	OJ991201_10.0421.C14
Gene No.	108814	Strand	+
Start	17067	End	17127
Name	OJ991201_10.0421.C14.o5.gs	Method	GENSCAN
Start	17067	End	17127
GI	none	Score	.48
Exons	17067..17127		

Seq. No.	51355	Seq. ID	OJ991201_10.0421.C14
Gene No.	108815	Strand	-
Start	8019	End	13621
Name	OJ991201_10.0421.C14.o3.gs	Method	GENSCAN
Start	8019	End	13621
GI	none	Score	.78
Exons	8019..8488, 8536..8987, 9406..9590, 11985..12077, 12500..12676, 13538..13621		

Seq. No.	51355	Seq. ID	OJ991201_10.0421.C14
Gene No.	108816	Strand	-
Start	15891	End	16184
Name	OJ991201_10.0421.C14.o3.tm	Method	TBLASTX:Maize
Start	2396	End	2845
GI	none	Score	40
Exons	2396..2434, 2432..2845, 2443..2769		

Seq. No.	51355	Seq. ID	OJ991201_10.0421.C14
Gene No.	108816	Strand	-
Start	15891	End	16184
Name	OJ991201_10.0421.C14.o1.tm	Method	TBLASTX:Maize
Start	2959	End	3325
GI	none	Score	277
Exons	2959..3105, 3005..3325, 3157..3315		

Seq. No.	51355	Seq. ID	OJ991201_10.0421.C14
Gene No.	108816	Strand	-
Start	15891	End	16184
Name	OJ991201_10.0421.C14.o2.tm	Method	TBLASTX:Maize
Start	7933	End	8319

GI	none	Score	136
Exons	7933..8016, 7959..8093, 7961..8107, 7962..8099, 8101..8277, 8102..8257, 8109..8288, 8109..8312, 8269..8319		

Seq. No.	51355	Seq. ID	OJ991201_10.0421.C14
Gene No.	108816	Strand	-
Start	15891	End	16184
Name	OJ991201_10.0421.C14.o4.tm	Method	TBLASTX:Maize
Start	11222	End	11548
GI	none	Score	216
Exons	11222..11548		

Seq. No.	51355	Seq. ID	OJ991201_10.0421.C14
Gene No.	108816	Strand	-
Start	15891	End	16184
Name	OJ991201_10.0421.C14.o1.gp	Method	AAT/GAP
Start	15891	End	16184
GI	3763666	Score	540
Exons	15891..16184		

Seq. No.	51356	Seq. ID	OJ991201_10.0421.C15
Gene No.	108817	Strand	-
Start	70	End	938
Name	OJ991201_10.0421.C15.o1.gs	Method	GENSCAN
Start	70	End	938
GI	none	Score	.95
Exons	70..158, 808..938		

Seq. No.	51357	Seq. ID	OJ991201_13.0421.C3
Gene No.	108818	Strand	+
Start	1322	End	1493
Name	OJ991201_13.0421.C3.o1.gs	Method	GENSCAN
Start	1322	End	1493
GI	none	Score	.69
Exons	1322..1493		

Seq. No.	51357	Seq. ID	OJ991201_13.0421.C3
Gene No.	108819	Strand	+
Start	3430	End	9544
Name	OJ991201_13.0421.C3.o2.gs	Method	GENSCAN
Start	3430	End	6306
GI	none	Score	.94
Exons	3430..3595, 3690..3934, 4184..4387, 4507..4599, 4675..4767, 4856..5197, 5335..5397, 5628..5696, 6091..6306		

Seq. No.	51357	Seq. ID	OJ991201_13.0421.C3
Gene No.	108819	Strand	+
Start	3430	End	9544
Name	OJ991201_13.0421.C3.o2.np	Method	AAT/NAP
Start	6132	End	9544
GI	4680204	Score	96
Exons	6132..6302, 9519..9544		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	51357	Seq. ID	OJ991201_13.0421.C3
Gene No.	108820	Strand	+
Start	10250	End	10958

Name	OJ991201_13.0421.C3.o3.np	Method	AAT/NAP
Start	10250	End	10610
GI	7523488	Score	198
Exons	10250..10329, 10377..10610		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	51357	Seq. ID	OJ991201_13.0421.C3
Gene No.	108820	Strand	+
Start	10250	End	10958
Name	OJ991201_13.0421.C3.o4.gs	Method	GENSCAN
Start	10357	End	10958
GI	none	Score	.78
Exons	10357..10610, 10955..10958		

Seq. No.	51357	Seq. ID	OJ991201_13.0421.C3
Gene No.	108821	Strand	-
Start	6843	End	7362
Name	OJ991201_13.0421.C3.o1.gp	Method	AAT/GAP
Start	6843	End	7362
GI	LIB3434-038-P1-K1-F1	Score	766
Exons	6843..7362		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	51357	Seq. ID	OJ991201_13.0421.C3
Gene No.	108822	Strand	-
Start	9700	End	10038
Name	OJ991201_13.0421.C3.o3.gs	Method	GENSCAN
Start	9700	End	10038
GI	none	Score	1
Exons	9700..10038		

Seq. No.	51357	Seq. ID	OJ991201_13.0421.C3
Gene No.	108823	Strand	-
Start	11822	End	12778
Name	OJ991201_13.0421.C3.o5.gs	Method	GENSCAN
Start	11822	End	12778
GI	none	Score	.78
Exons	11822..12778		

Seq. No.	51357	Seq. ID	OJ991201_13.0421.C3
Gene No.	108823	Strand	-
Start	11822	End	12778
Name	OJ991201_13.0421.C3.o4.np	Method	AAT/NAP
Start	11957	End	12600
GI	729704	Score	58
Exons	11957..12151, 12218..12271, 12527..12600		
GI Descrip.	DNA-BINDING PROTEIN HEXBP (HEXAMER-BINDING PROTEIN) gi 1078700 pir A47156 hexamer-binding protein HEXBP - Leishmania major gi 159342 (M94390) HEXBP DNA binding protein [Leishmania major]		

Seq. No.	51357	Seq. ID	OJ991201_13.0421.C3
Gene No.	108824	Strand	-
Start	13556	End	13629
Name	OJ991201_13.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	3692	End	4369

GI	none	Score	191
Exons	3692..3886, 4190..4369		
Seq. No.	51357	Seq. ID	OJ991201_13.0421.C3
Gene No.	108824	Strand	-
Start	13556	End	13629
Name	OJ991201_13.0421.C3.o2.gp	Method	AAT/GAP
Start	13556	End	13629
GI	LIB3431-004-P1-K1-G12	Score	87
Exons	13556..13629		
GI Descrip.	'4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	51358	Seq. ID	OJ991201_13.0421.C4
Gene No.	108825	Strand	+
Start	444	End	3110
Name	OJ991201_13.0421.C4.o1.gs	Method	GENSCAN
Start	444	End	3110
GI	none	Score	.84
Exons	444..666, 712..831, 934..1047, 1173..1979, 2115..2288, 2395..2495, 2580..2652, 2747..2845, 2925..3110		

Seq. No.	51358	Seq. ID	OJ991201_13.0421.C4
Gene No.	108826	Strand	+
Start	3472	End	3607
Name	OJ991201_13.0421.C4.o1.gp	Method	AAT/GAP
Start	3472	End	3607
GI	21474_1.R1084	Score	197
Exons	3472..3607		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	51359	Seq. ID	OJ991201_13.0421.C5
Gene No.	108827	Strand	-
Start	1208	End	1624
Name	OJ991201_13.0421.C5.o1.gs	Method	GENSCAN
Start	1208	End	1624
GI	none	Score	.58
Exons	1208..1624		

Seq. No.	51360	Seq. ID	OJ991201_13.0421.C6
Gene No.	108828	Strand	+
Start	148	End	8404
Name	OJ991201_13.0421.C6.o1.gs	Method	GENSCAN
Start	148	End	8404
GI	none	Score	.45
Exons	148..209, 493..497, 2182..2498, 3117..3217, 3294..3361, 4066..4184, 5547..5624, 6501..7487, 7776..7961, 8087..8404		

Seq. No.	51360	Seq. ID	OJ991201_13.0421.C6
Gene No.	108828	Strand	+
Start	148	End	8404
Name	OJ991201_13.0421.C6.o2.np	Method	AAT/NAP
Start	6492	End	7314
GI	5420387	Score	207
Exons	6492..7314		
GI Descrip.	(AJ243459) proteophosphoglycan [Leishmania major]		

Seq. No.	51360	Seq. ID	OJ991201_13.0421.C6
Gene No.	108829	Strand	-
Start	1387	End	3404
Name	OJ991201_13.0421.C6.o1.np	Method	AAT/NAP
Start	1387	End	3404
GI	6983857	Score	395
Exons	1387..1437, 1647..2213, 2329..2572, 2735..3404		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		

Seq. No.	51360	Seq. ID	OJ991201_13.0421.C6
Gene No.	108830	Strand	-
Start	11086	End	12001
Name	OJ991201_13.0421.C6.o2.gs	Method	GENSCAN
Start	11086	End	12001
GI	none	Score	.51
Exons	11086..11381, 11447..11587, 11947..12001		

Seq. No.	51361	Seq. ID	OJ991201_13.0421.C7
Gene No.	108831	Strand	+
Start	725	End	8323
Name	OJ991201_13.0421.C7.o1.gs	Method	GENSCAN
Start	725	End	3237
GI	none	Score	.66
Exons	725..772, 841..1021, 1814..2090, 2584..2608, 3097..3237		

Seq. No.	51361	Seq. ID	OJ991201_13.0421.C7
Gene No.	108831	Strand	+
Start	725	End	8323
Name	OJ991201_13.0421.C7.o1.gp	Method	AAT/GAP
Start	1773	End	8323
GI	4880205	Score	775
Exons	1773..2090, 3948..4038, 8282..8323		
GI Descrip.	5295936/dbj AB026295.2 AB026295 1.0e-16 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence		

Seq. No.	51361	Seq. ID	OJ991201_13.0421.C7
Gene No.	108831	Strand	+
Start	725	End	8323
Name	OJ991201_13.0421.C7.o1.np	Method	AAT/NAP
Start	2300	End	4043
GI	5295968	Score	69
Exons	2300..2322, 3948..4043		
GI Descrip.	(AB026295) ESTs C19441(E10423),C99201(E10423) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51361	Seq. ID	OJ991201_13.0421.C7
Gene No.	108832	Strand	+
Start	10035	End	10242
Name	OJ991201_13.0421.C7.o2.gp	Method	AAT/GAP
Start	10035	End	10242
GI	2798075	Score	403
Exons	10035..10242		

Seq. No.	51361	Seq. ID	OJ991201_13.0421.C7
Gene No.	108833	Strand	-

Start	8852	End	19028
Name	OJ991201_13.0421.C7.o2.gs	Method	GENSCAN
Start	8852	End	19028
GI	none	Score	.42
Exons	8852..9128, 10530..10599, 11443..11593, 14445..14526, 14591..14633, 16404..16498, 17075..17255, 17289..17360, 17680..17710, 17901..17956, 18910..19028		

Seq. No.	51362	Seq. ID	OJ991201_13.0421.C8
Gene No.	108834	Strand	+
Start	7615	End	13747
Name	OJ991201_13.0421.C8.o1.gp	Method	AAT/GAP
Start	7559	End	13747
GI	uC-osrocyp028d05b1	Score	908
Exons	7559..7979, 13661..13747		
GI Descrip.	'5295936/dbj AB026295.2 AB026295 1.0e-16 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	51362	Seq. ID	OJ991201_13.0421.C8
Gene No.	108834	Strand	+
Start	7615	End	13747
Name	OJ991201_13.0421.C8.o3.gs	Method	GENSCAN
Start	7615	End	9451
GI	none	Score	.6
Exons	7615..7937, 8246..8330, 8349..8494, 8512..9451		

Seq. No.	51362	Seq. ID	OJ991201_13.0421.C8
Gene No.	108835	Strand	+
Start	23312	End	26733
Name	OJ991201_13.0421.C8.o6.gs	Method	GENSCAN
Start	23312	End	26733
GI	none	Score	.59
Exons	23312..23441, 24229..24321, 26178..26287, 26668..26733		

Seq. No.	51362	Seq. ID	OJ991201_13.0421.C8
Gene No.	108836	Strand	-
Start	2604	End	7356
Name	OJ991201_13.0421.C8.o1.np	Method	AAT/NAP
Start	2604	End	7356
GI	130582	Score	541
Exons	2604..2677, 6299..7356		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi 100342 pir S04273 hypothetical protein - common tobacco gi 20045 emb CAA32025 (X1377) ORF [Nicotiana tabacum]		

Seq. No.	51362	Seq. ID	OJ991201_13.0421.C8
Gene No.	108836	Strand	-
Start	2604	End	7356
Name	OJ991201_13.0421.C8.o2.gs	Method	GENSCAN
Start	3711	End	7356
GI	none	Score	.47
Exons	3711..3789, 5501..5642, 6126..7356		

Seq. No.	51362	Seq. ID	OJ991201_13.0421.C8
Gene No.	108837	Strand	-
Start	9871	End	12385

Name	OJ991201_13.0421.C8.o4.gs	Method	GENSCAN
Start	9871	End	12385
GI	none	Score	.61
Exons	9871..10046, 11720..11783, 12102..12170, 12356..12385		

Seq. No.	51363	Seq. ID	OJ991201_13.0421.C9
Gene No.	108838	Strand	+
Start	315	End	2940
Name	OJ991201_13.0421.C9.o1.gs	Method	GENSCAN
Start	315	End	2940
GI	none	Score	.77
Exons	315..378, 413..666, 2035..2207, 2922..2940		

Seq. No.	51363	Seq. ID	OJ991201_13.0421.C9
Gene No.	108839	Strand	-
Start	10771	End	11421
Name	OJ991201_13.0421.C9.o3.gs	Method	GENSCAN
Start	10771	End	11421
GI	none	Score	.48
Exons	10771..10798, 11021..11197, 11300..11421		

Seq. No.	51364	Seq. ID	OJ991201_13.0421.C10
Gene No.	108840	Strand	+
Start	1195	End	2274
Name	OJ991201_13.0421.C10.o1.np	Method	AAT/NAP
Start	1195	End	2274
GI	7340868	Score	180
Exons	1195..1382, 2252..2274		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51365	Seq. ID	OJ991201_12.0421.C2
Gene No.	108841	Strand	+
Start	1381	End	4013
Name	OJ991201_12.0421.C2.o1.gs	Method	GENSCAN
Start	1381	End	4013
GI	none	Score	.54
Exons	1381..1564, 1977..2070, 2970..2997, 3053..3161, 3826..4013		

Seq. No.	51365	Seq. ID	OJ991201_12.0421.C2
Gene No.	108842	Strand	+
Start	6885	End	7405
Name	OJ991201_12.0421.C2.o3.np	Method	AAT/NAP
Start	6885	End	7405
GI	7340909	Score	165
Exons	6885..7153, 7217..7405		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51365	Seq. ID	OJ991201_12.0421.C2
Gene No.	108843	Strand	-
Start	1361	End	1663
Name	OJ991201_12.0421.C2.o1.gp	Method	AAT/GAP
Start	1361	End	1663
GI	426638	Score	591
Exons	1361..1663		

Seq. No.	51365	Seq. ID	OJ991201_12.0421.C2
Gene No.	108844	Strand	-

Start	4518	End	7376
Name	OJ991201_12.0421.C2.o2.gp	Method	AAT/GAP
Start	4362	End	4928
GI	666_15.R1084	Score	902
Exons	4362..4928		
GI Descrip.	'122106/sp P02308 H4_WHEAT 8.0e-40 HISTONE H4 >gi_70771_pir_HSZM4_histone H4 - maize >gi_81642_pir_S06904 histone H4 - Arabidopsis thaliana >gi_2119028_pir_S60475 histone H4 - garden pea >gi_21795_emb_CAA24924_ (X00043) histone H4 [Triticum aestivum] >gi_166740_ (M17132) histone H4 [Arabidopsis thaliana] >gi_166742_ (M17133) histone H4 [Arabidopsis thaliana] >gi_168499_ (M36659) histo'		

Seq. No.	51365	Seq. ID	OJ991201_12.0421.C2
Gene No.	108844	Strand	-
Start	4518	End	7376
Name	OJ991201_12.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	4470	End	4832
GI	none	Score	404
Exons	4470..4766, 4471..4767, 4645..4776, 4665..4832		

Seq. No.	51365	Seq. ID	OJ991201_12.0421.C2
Gene No.	108844	Strand	-
Start	4518	End	7376
Name	OJ991201_12.0421.C2.o1.tc	Method	TBLASTX:Cress
Start	4516	End	4829
GI	none	Score	292
Exons	4516..4770, 4516..4593, 4521..4766, 4645..4776, 4668..4829		

Seq. No.	51365	Seq. ID	OJ991201_12.0421.C2
Gene No.	108844	Strand	-
Start	4518	End	7376
Name	OJ991201_12.0421.C2.o2.gs	Method	GENSCAN
Start	4518	End	7376
GI	none	Score	.42
Exons	4518..4856, 7338..7376		

Seq. No.	51365	Seq. ID	OJ991201_12.0421.C2
Gene No.	108844	Strand	-
Start	4518	End	7376
Name	OJ991201_12.0421.C2.o1.ts	Method	TBLASTX:Soybean
Start	4519	End	4829
GI	none	Score	317
Exons	4519..4767, 4519..4593, 4521..4766, 4645..4770, 4665..4829		

Seq. No.	51365	Seq. ID	OJ991201_12.0421.C2
Gene No.	108844	Strand	-
Start	4518	End	7376
Name	OJ991201_12.0421.C2.o1.tw	Method	TBLASTX:Wheat
Start	4519	End	4829
GI	none	Score	365
Exons	4519..4593, 4521..4766, 4522..4770, 4645..4773, 4665..4829		

Seq. No.	51365	Seq. ID	OJ991201_12.0421.C2
Gene No.	108844	Strand	-
Start	4518	End	7376
Name	OJ991201_12.0421.C2.o2.np	Method	AAT/NAP

Start	4521	End	4875
GI	7504327	Score	516
Exons	4521..4875		
GI Descrip.	hypothetical protein F55G1.11 - Caenorhabditis elegans gi 1326372 gb AAB00649.1 (U58750) Similar to Histone [Caenorhabditis elegans]		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108845	Strand	-
Start	2275	End	2737
Name	OJ991201_12.0421.C3.o2.gs	Method	GENSCAN
Start	2275	End	2737
GI	none	Score	.51
Exons	2275..2518, 2712..2737		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108846	Strand	-
Start	3907	End	4933
Name	OJ991201_12.0421.C3.o3.gs	Method	GENSCAN
Start	3907	End	4933
GI	none	Score	.91
Exons	3907..4206, 4931..4933		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108846	Strand	-
Start	3907	End	4933
Name	OJ991201_12.0421.C3.o1.np	Method	AAT/NAP
Start	3910	End	4234
GI	6006733	Score	359
Exons	3910..4234		
GI Descrip.	(AF140034) histone H4 [Phreatamoeba balamuthi]		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o2.tc	Method	TBLASTX:Cress
Start	3885	End	4192
GI	none	Score	176
Exons	3885..4067, 3886..4185, 3895..4191, 3902..4192		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o2.tm	Method	TBLASTX:Maize
Start	3887	End	4192
GI	none	Score	314
Exons	3887..4192, 3887..4147, 3888..4148, 3892..4191		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o2.ts	Method	TBLASTX:Soybean
Start	3889	End	4192
GI	none	Score	185
Exons	3889..4152, 3895..4191, 3899..4192		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
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Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o1.tw	Method	TBLASTX:Wheat
Start	3904	End	4192
GI	none	Score	320
Exons	3904..4191, 3911..4192		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o1.gp	Method	AAT/GAP
Start	5236	End	5561
GI	2429039	Score	517
Exons	5236..5561		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o4.gs	Method	GENSCAN
Start	5383	End	7216
GI	none	Score	1
Exons	5383..5745, 6012..6397, 6500..6689, 6799..6968, 7072..7216		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o2.np	Method	AAT/NAP
Start	5384	End	7216
GI	6642658	Score	871
Exons	5384..5745, 6012..6397, 6500..6689, 6799..6968, 7078..7216		
GI Descrip.	(AC012395) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o1.tc	Method	TBLASTX:Cress
Start	5563	End	6924
GI	none	Score	131
Exons	5563..5679, 6021..6098, 6195..6242, 6234..6398, 6238..6399, 6504..6692, 6511..6693, 6781..6924, 6782..6883		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o1.ts	Method	TBLASTX:Soybean
Start	5563	End	6924
GI	none	Score	122
Exons	5563..5745, 6012..6176, 6019..6174, 6190..6399, 6195..6398, 6504..6692, 6511..6696, 6779..6883, 6781..6924		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	5576	End	6690
GI	none	Score	255
Exons	5576..5746, 5577..5741, 5578..5745, 5994..6182, 6007..6180,		

6183..6398, 6184..6399, 6241..6399, 6476..6532, 6477..6689,
6501..6689, 6502..6690, 6616..6690

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o2.tw	Method	TBLASTX:Wheat
Start	6012	End	6375
GI	none	Score	97
Exons	6012..6176, 6016..6174, 6195..6305, 6196..6282, 6312..6374, 6316..6375		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o3.tm	Method	TBLASTX:Maize
Start	6799	End	7220
GI	none	Score	155
Exons	6799..6951, 6803..6949, 7184..7219, 7185..7220		

Seq. No.	51366	Seq. ID	OJ991201_12.0421.C3
Gene No.	108847	Strand	-
Start	5236	End	7451
Name	OJ991201_12.0421.C3.o2.gp	Method	AAT/GAP
Start	7095	End	7451
GI	none	Score	642
Exons	7095..7451		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108848	Strand	+
Start	603	End	9381
Name	OJ991201_12.0421.C4.o1.gs	Method	GENSCAN
Start	603	End	9381
GI	none	Score	.59
Exons	603..657, 3095..3193, 3872..4064, 4075..4185, 4263..4360, 4452..4575, 4623..4893, 5657..5860, 6741..6782, 6841..6944, 7099..7278, 8325..8613, 8719..9381		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108848	Strand	+
Start	603	End	9381
Name	OJ991201_12.0421.C4.o2.np	Method	AAT/NAP
Start	2866	End	5983
GI	1709574	Score	312
Exons	2866..2917, 4078..4360, 4452..4896, 5501..5571, 5919..5983		
GI Descrip.	CARICAIN PRECURSOR (PAPAYA PROTEINASE OMEGA) (PAPAYA PROTEINASE III) (PPIII) (PAPAYA PEPTIDASE A) gi 484397 pir JN0633 caricain (EC 3.4.22.30) I precursor - papaya gi 18098 emb CAA46862 (X66060) proteinase omega [Carica papaya]		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108848	Strand	+
Start	603	End	9381
Name	OJ991201_12.0421.C4.o3.np	Method	AAT/NAP
Start	3363	End	5166
GI	7242910	Score	94
Exons	3363..3414, 3771..3976, 5085..5166		

GI Descrip. (AP001383) hypothetical protein [Oryza sativa]

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4.
Gene No.	108849	Strand	+
Start	10684	End	14814
Name	OJ991201_12.0421.C4.o7.np	Method	AAT/NAP
Start	10684	End	14582
GI	7413570	Score	263
Exons	10684..10707, 12221..12896, 14515..14582		
GI Descrip.	(AL162973) putative protein [Arabidopsis thaliana]		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108849	Strand	+
Start	10684	End	14814
Name	OJ991201_12.0421.C4.o6.np	Method	AAT/NAP
Start	12221	End	14814
GI	6682245	Score	273
Exons	12221..12973, 14784..14814		
GI Descrip.	(AC016661) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108850	Strand	+
Start	17508	End	18277
Name	OJ991201_12.0421.C4.o9.np	Method	AAT/NAP
Start	17508	End	18277
GI	6682245	Score	360
Exons	17508..18277		
GI Descrip.	(AC016661) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108851	Strand	-
Start	1591	End	1720
Name	OJ991201_12.0421.C4.o1.np	Method	AAT/NAP
Start	1591	End	1720
GI	6815099	Score	113
Exons	1591..1720		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108852	Strand	-
Start	4797	End	4905
Name	OJ991201_12.0421.C4.o1.gp	Method	AAT/GAP
Start	4797	End	4905
GI	39123_1.R1084	Score	146
Exons	4797..4905		
GI Descrip.	'3378493/emb CAA07567 2.0e-21 (AJ007579) cysteine proteinase [Ribes nigrum]'		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108853	Strand	-
Start	8496	End	10890
Name	OJ991201_12.0421.C4.o5.np	Method	AAT/NAP
Start	8496	End	10890
GI	6682249	Score	337
Exons	8496..8775, 8926..9296, 9402..9537, 10040..10241, 10350..10632, 10807..10890		
GI Descrip.	(AC016661) putative SF16 protein [Arabidopsis thaliana]		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108853	Strand	-
Start	8496	End	10890
Name	OJ991201_12.0421.C4.o2.gs	Method	GENSCAN
Start	10021	End	10890
GI	none	Score	.7
Exons	10021..10242, 10354..10581, 10807..10890		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108854	Strand	-
Start	14556	End	17860
Name	OJ991201_12.0421.C4.o1.tc	Method	TBLASTX:Cress
Start	4091	End	4891
GI	none	Score	63
Exons	4091..4210, 4191..4244, 4288..4362, 4451..4501, 4505..4549, 4643..4723, 4729..4842, 4856..4891		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108854	Strand	-
Start	14556	End	17860
Name	OJ991201_12.0421.C4.o2.ts	Method	TBLASTX:Soybean
Start	4091	End	4891
GI	none	Score	61
Exons	4091..4189, 4176..4235, 4294..4362, 4451..4501, 4499..4549, 4643..4723, 4729..4845, 4850..4891		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108854	Strand	-
Start	14556	End	17860
Name	OJ991201_12.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	4092	End	4891
GI	none	Score	47
Exons	4092..4154, 4191..4241, 4279..4362, 4451..4501, 4505..4549, 4643..4723, 4729..4842, 4859..4891		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108854	Strand	-
Start	14556	End	17860
Name	OJ991201_12.0421.C4.o1.tw	Method	TBLASTX:Wheat
Start	4276	End	4647
GI	none	Score	80
Exons	4276..4362, 4285..4350, 4290..4367, 4450..4491, 4451..4498, 4454..4501, 4499..4582, 4499..4585, 4588..4623, 4621..4647		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108854	Strand	-
Start	14556	End	17860
Name	OJ991201_12.0421.C4.o2.tm	Method	TBLASTX:Maize
Start	6188	End	6727
GI	none	Score	75
Exons	6188..6370, 6461..6727, 6564..6686		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108854	Strand	-
Start	14556	End	17860
Name	OJ991201_12.0421.C4.o1.ts	Method	TBLASTX:Soybean

Start	12204	End	17860
GI	none	Score	141
Exons	12204..12308, 12221..12322, 12221..12328, 12311..12397, 12320..12574, 12324..12431, 12334..12567, 17471..17860, 17489..17683, 17494..17853		

Seq. No.	51367	Seq. ID	OJ991201_12.0421.C4
Gene No.	108854	Strand	-
Start	14556	End	17860
Name	OJ991201_12.0421.C4.o8.np	Method	AAT/NAP
Start	14556	End	17596
GI	7487891	Score	54
Exons	14556..14583, 16871..16980, 17474..17596		
GI Descrip.	hypothetical protein T9J22.8 - Arabidopsis thaliana gi 2739366 gb AAC14491.1 (AC002505) putative SF16 protein {Helianthus annuus} [Arabidopsis thaliana]		

Seq. No.	51368	Seq. ID	OJ991201_12.0421.C5
Gene No.	108855	Strand	+
Start	32	End	410
Name	OJ991201_12.0421.C5.o1.gp	Method	AAT/GAP
Start	32	End	410
GI	none	Score	739
Exons	32..410		

Seq. No.	51368	Seq. ID	OJ991201_12.0421.C5
Gene No.	108856	Strand	+
Start	737	End	1272
Name	OJ991201_12.0421.C5.o2.gp	Method	AAT/GAP
Start	737	End	1272
GI	none	Score	989
Exons	737..1272		

Seq. No.	51368	Seq. ID	OJ991201_12.0421.C5
Gene No.	108857	Strand	-
Start	2559	End	6100
Name	OJ991201_12.0421.C5.o3.gp	Method	AAT/GAP
Start	2559	End	6100
GI	19213_1.R1084	Score	1483
Exons	2559..2941, 3038..3095, 4005..4055, 4130..4224, 5661..5794, 5947..6100		
GI Descrip.	'115840/sp P25209 CBFA_MAIZE 1.0e-53 CCAAT-BINDING TRANSCRIPTION FACTOR SUBUNIT A (CBF- \bar{A}) (NF-Y PROTEIN CHAIN B) (NF-YB) (CAAT-BOX DNA BINDING PROTEIN SUBUNIT B)'		

Seq. No.	51368	Seq. ID	OJ991201_12.0421.C5
Gene No.	108857	Strand	-
Start	2559	End	6100
Name	OJ991201_12.0421.C5.o1.np	Method	AAT/NAP
Start	3072	End	6100
GI	22380	Score	600
Exons	3072..3095, 4005..4055, 4130..4224, 5661..5794, 5947..6100		
GI Descrip.	(X59714) CAAT-box DNA binding protein subunit B (NF-YB) [Zea mays]		

Seq. No.	51368	Seq. ID	OJ991201_12.0421.C5
Gene No.	108857	Strand	-

Start	2559	End	6100
Name	OJ991201_12.0421.C5.o2.gs	Method	GENSCAN
Start	3879	End	6044
GI	none	Score	.66
Exons	3879..4055, 4130..4222, 5665..5794, 5947..6044		

Seq. No.	51368	Seq. ID	OJ991201_12.0421.C5
Gene No.	108857	Strand	-
Start	2559	End	6100
Name	OJ991201_12.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	5633	End	6093
GI	none	Score	129
Exons	5633..5794, 5653..5793, 5946..6092, 5947..6093		

Seq. No.	51368	Seq. ID	OJ991201_12.0421.C5
Gene No.	108857	Strand	-
Start	2559	End	6100
Name	OJ991201_12.0421.C5.o1.tc	Method	TBLASTX:Cress
Start	5653	End	6098
GI	none	Score	123
Exons	5653..5793, 5654..5794, 5946..6098, 5947..6021, 6042..6092		

Seq. No.	51368	Seq. ID	OJ991201_12.0421.C5
Gene No.	108857	Strand	-
Start	2559	End	6100
Name	OJ991201_12.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	5653	End	6099
GI	none	Score	127
Exons	5653..5790, 5653..5793, 5666..5794, 5666..5797, 5946..6098, 5947..6099		

Seq. No.	51368	Seq. ID	OJ991201_12.0421.C5
Gene No.	108857	Strand	-
Start	2559	End	6100
Name	OJ991201_12.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	5662	End	6099
GI	none	Score	152
Exons	5662..5790, 5662..5793, 5666..5794, 5666..5797, 5946..6098, 5947..6099		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108858	Strand	+
Start	1217	End	2086
Name	OJ991201_12.0421.C6.o1.gs	Method	GENSCAN
Start	1217	End	2086
GI	none	Score	.93
Exons	1217..1260, 1903..2086		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o1.gp	Method	AAT/GAP
Start	2657	End	3780
GI	LIB3433-059-P1-K1-H3	Score	824
Exons	2657..2774, 3184..3270, 3347..3475, 3571..3639, 3720..3780		
GI Descrip.	'4467147/emb CAB37516 8.0e-42 (AL035540) putative protein [Arabidopsis thaliana]'		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o2.tm	Method	TBLASTX:Maize
Start	2700	End	4325
GI	none	Score	57
Exons	2700..2768, 3130..3261, 3185..3241, 3339..3494, 3347..3490, 3595..3630, 3720..3803, 4034..4150, 4042..4152, 4257..4325, 4258..4323		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	2706	End	4619
GI	none	Score	62
Exons	2706..2768, 2707..2775, 3182..3241, 3184..3261, 3342..3434, 3344..3490, 3595..3630, 3723..3803, 4019..4138, 4042..4149, 4218..4454, 4258..4323, 4545..4619		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	2709	End	3655
GI	none	Score	58
Exons	2709..2777, 3184..3261, 3191..3241, 3339..3494, 3347..3499, 3347..3490, 3595..3630, 3596..3655		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o1.np	Method	AAT/NAP
Start	2712	End	7898
GI	7413563	Score	1319
Exons	2712..2774, 3184..3267, 3347..3475, 3571..3639, 3720..3800, 4045..4149, 4233..4463, 4545..5492, 5520..5719, 7877..7898		
GI Descrip.	(A1162973) putative protein [Arabidopsis thaliana]		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o2.gs	Method	GENSCAN
Start	3160	End	5904
GI	none	Score	.89
Exons	3160..3183, 3347..3475, 3571..3639, 4045..4149, 4233..4463, 4545..5719, 5838..5904		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o4.tc	Method	TBLASTX:Cress
Start	3184	End	3442
GI	none	Score	56
Exons	3184..3261, 3191..3241, 3324..3389, 3342..3407, 3347..3406, 3365..3442		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	4025	End	4616
GI	none	Score	42
Exons	4025..4075, 4064..4138, 4066..4149, 4218..4454, 4258..4473, 4545..4616, 4549..4590		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	4331	End	5717
GI	none	Score	83
Exons	4331..4465, 4344..4484, 4348..4500, 4368..4454, 4534..4734, 4544..4747, 4545..4733, 4740..5039, 4740..5033, 4998..5102, 4999..5076, 5000..5104, 5001..5105, 5079..5432, 5079..5432, 5435..5572, 5450..5539, 5478..5570, 5521..5703, 5523..5717		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o3.ts	Method	TBLASTX:Soybean
Start	4750	End	5001
GI	none	Score	118
Exons	4750..4884, 4751..4939, 4761..4988, 4779..4988, 4780..5001		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o2.gp	Method	AAT/GAP
Start	4772	End	5206
GI	uC-osflcyp175a09b1	Score	870
Exons	4772..5206		
GI Descrip.	'4467147/emb CAB37516 2.0e-33 (AL035540) putative protein [Arabidopsis thaliana]'		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o3.tc	Method	TBLASTX:Cress
Start	4779	End	4971
GI	none	Score	96
Exons	4779..4949, 4779..4970, 4780..4971		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-
Start	2657	End	7898
Name	OJ991201_12.0421.C6.o2.ts	Method	TBLASTX:Soybean
Start	5049	End	5675
GI	none	Score	123
Exons	5049..5225, 5050..5226, 5265..5417, 5610..5675		

Seq. No.	51369	Seq. ID	OJ991201_12.0421.C6
Gene No.	108859	Strand	-

Start 2657
 Name OJ991201_12.0421.C6.o2.tw
 Start 5049
 GI none
 Exons 5049..5282, 5052..5219

End 7898
 Method TBLASTX:Wheat
 End 5282
 Score 91

Seq. No. 51369
 Gene No. 108859
 Start 2657
 Name OJ991201_12.0421.C6.o2.tc
 Start 5079
 GI none
 Exons 5079..5378, 5080..5361, 5166..5366, 5246..5374

Seq. ID OJ991201_12.0421.C6
 Strand -
 End 7898
 Method TBLASTX:Cress
 End 5378
 Score 170

Seq. No. 51369
 Gene No. 108859
 Start 2657
 Name OJ991201_12.0421.C6.o3.gp
 Start 5228
 GI none
 Exons 5228..5579

Seq. ID OJ991201_12.0421.C6
 Strand -
 End 7898
 Method AAT/GAP
 End 5579
 Score 700

Seq. No. 51370
 Gene No. 108860
 Start 1
 Name OJ991201_12.0421.C7.o1.np
 Start 1
 GI 7413563
 Exons 1..1099, 1211..1328, 1408..1592, 2143..2278, 2355..2513, 2599..2715, 2795..2905, 2983..3347

Seq. ID OJ991201_12.0421.C7
 Strand -
 End 3347
 Method AAT/NAP
 End 3347
 Score 1060

GI Descrip. (AL162973) putative protein [Arabidopsis thaliana]

Seq. No. 51370
 Gene No. 108860
 Start 1
 Name OJ991201_12.0421.C7.o1.gs
 Start 78
 GI none
 Exons 78..1041, 1412..1567, 2120..2278, 2795..2905, 2983..3225

Seq. ID OJ991201_12.0421.C7
 Strand -
 End 3347
 Method GENSCAN
 End 3225
 Score .75

Seq. No. 51370
 Gene No. 108860
 Start 1
 Name OJ991201_12.0421.C7.o1.tc
 Start 2596
 GI none
 Exons 2596..2721, 2795..2908, 2795..2908, 2808..2912, 2968..3015, 2984..3010

Seq. ID OJ991201_12.0421.C7
 Strand -
 End 3347
 Method TBLASTX:Cress
 End 3015
 Score 77

Seq. No. 51371
 Gene No. 108861
 Start 1249
 Name OJ991201_12.0421.C8.o1.gs
 Start 1249
 GI none
 Exons 1249..1652, 1789..1923, 2641..2644

Seq. ID OJ991201_12.0421.C8
 Strand +
 End 2644
 Method GENSCAN
 End 2644
 Score .48

Seq. No.	51372	Seq. ID	OJ991201_12.0421.C9
Gene No.	108862	Strand	+
Start	717	End	10064
Name	OJ991201_12.0421.C9.o1.gs	Method	GENSCAN
Start	717	End	10064
GI	none	Score	.79
Exons	717..1103, 1260..1354, 2131..2235, 2429..2592, 3368..3613, 4243..4338, 4435..4587, 5159..5229, 5319..5441, 6257..6405, 7151..7280, 7449..7500, 7617..7779, 7887..8061, 8415..8585, 8918..9031, 9936..10064		

Seq. No.	51372	Seq. ID	OJ991201_12.0421.C9
Gene No.	108862	Strand	+
Start	717	End	10064
Name	OJ991201_12.0421.C9.o1.np	Method	AAT/NAP
Start	906	End	9246
GI	6682244	Score	1889
Exons	906..1110, 1695..1825, 1933..2044, 2131..2353, 2429..2592, 3368..3613, 4243..4338, 4435..4587, 5159..5229, 5319..5437, 7151..7280, 7617..7762, 7887..8061, 8415..8585, 8918..9031, 9202..9246		
GI Descrip.	(AC016661) putative minichromosome maintenance (MCM) protein [Arabidopsis thaliana]		

Seq. No.	51372	Seq. ID	OJ991201_12.0421.C9
Gene No.	108863	Strand	-
Start	12212	End	12463
Name	OJ991201_12.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	2433	End	2665
GI	none	Score	224
Exons	2433..2594, 2450..2596, 2451..2594, 2471..2596, 2606..2665		

Seq. No.	51372	Seq. ID	OJ991201_12.0421.C9
Gene No.	108863	Strand	-
Start	12212	End	12463
Name	OJ991201_12.0421.C9.o2.tc	Method	TBLASTX:Cress
Start	4293	End	5438
GI	none	Score	41
Exons	4293..4346, 4428..4589, 5157..5213, 5158..5232, 5327..5428, 5328..5438		

Seq. No.	51372	Seq. ID	OJ991201_12.0421.C9
Gene No.	108863	Strand	-
Start	12212	End	12463
Name	OJ991201_12.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	4428	End	7958
GI	none	Score	259
Exons	4428..4589, 4434..4589, 5158..5235, 5158..5235, 5159..5245, 5300..5434, 5317..5433, 5318..5437, 5319..5438, 7147..7266, 7152..7283, 7152..7274, 7449..7502, 7450..7500, 7622..7774, 7625..7822, 7642..7803, 7884..7958		

Seq. No.	51372	Seq. ID	OJ991201_12.0421.C9
Gene No.	108863	Strand	-
Start	12212	End	12463
Name	OJ991201_12.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	5151	End	7274

GI	none	Score	97
Exons	5151..5213, 5158..5232, 5319..5438, 5327..5437, 7152..7274		

Seq. No.	51372	Seq. ID	OJ991201_12.0421.C9
Gene No.	108863	Strand	-
Start	12212	End	12463
Name	OJ991201_12.0421.C9.o2.ts	Method	TBLASTX:Soybean
Start	5157	End	5438
GI	none	Score	95
Exons	5157..5213, 5158..5232, 5327..5428, 5328..5438, 5328..5438		

Seq. No.	51372	Seq. ID	OJ991201_12.0421.C9
Gene No.	108863	Strand	-
Start	12212	End	12463
Name	OJ991201_12.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	7206	End	7980
GI	none	Score	107
Exons	7206..7283, 7648..7764, 7660..7800, 7661..7780, 7884..7976, 7888..7980		

Seq. No.	51372	Seq. ID	OJ991201_12.0421.C9
Gene No.	108863	Strand	-
Start	12212	End	12463
Name	OJ991201_12.0421.C9.o1.gp	Method	AAT/GAP
Start	11706	End	11942
GI	none	Score	399
Exons	11706..11942		

Seq. No.	51372	Seq. ID	OJ991201_12.0421.C9
Gene No.	108863	Strand	-
Start	12212	End	12463
Name	OJ991201_12.0421.C9.o2.gs	Method	GENSCAN
Start	12212	End	12463
GI	none	Score	.96
Exons	12212..12463		

Seq. No.	51373	Seq. ID	OJ991201_12.0421.C10
Gene No.	108864	Strand	+
Start	1450	End	1522
Name	OJ991201_12.0421.C10.o2.gp	Method	AAT/GAP
Start	1450	End	1522
GI	none	Score	89
Exons	1450..1522		

Seq. No.	51373	Seq. ID	OJ991201_12.0421.C10
Gene No.	108865	Strand	-
Start	1368	End	1643
Name	OJ991201_12.0421.C10.o1.gp	Method	AAT/GAP
Start	1249	End	1445
GI	LIB3434-053-P1-K1-H7	Score	212
Exons	1249..1445		
GI Descrip.	'6041757/gb AC011806.1 AC011806 2.0e-12 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	51373	Seq. ID	OJ991201_12.0421.C10
Gene No.	108865	Strand	-

Start	1368	End	1643
Name	OJ991201_12.0421.C10.o1.gs	Method	GENSCAN
Start	1368	End	1643
GI	none	Score	.84
Exons	1368..1643		

Seq. No.	51374	Seq. ID	OJ991201_12.0421.C11
Gene No.	108866	Strand	+
Start	76	End	1715
Name	OJ991201_12.0421.C11.o1.gs	Method	GENSCAN
Start	76	End	1715
GI	none	Score	.95
Exons	76..337, 368..428, 1084..1715		

Seq. No.	51374	Seq. ID	OJ991201_12.0421.C11
Gene No.	108867	Strand	+
Start	2445	End	3870
Name	OJ991201_12.0421.C11.o1.np	Method	AAT/NAP
Start	2445	End	3870
GI	5852084	Score	73
Exons	2445..2516, 3787..3870		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	51374	Seq. ID	OJ991201_12.0421.C11
Gene No.	108868	Strand	+
Start	11101	End	17903
Name	OJ991201_12.0421.C11.o4.gs	Method	GENSCAN
Start	11101	End	17903
GI	none	Score	.5
Exons	11101..11215, 11347..11374, 11740..12066, 12068..12648, 13543..13664, 13746..14210, 14400..14850, 15338..15380, 15423..16093, 17578..17903		

Seq. No.	51374	Seq. ID	OJ991201_12.0421.C11
Gene No.	108868	Strand	+
Start	11101	End	17903
Name	OJ991201_12.0421.C11.o2.np	Method	AAT/NAP
Start	11608	End	14960
GI	4680203	Score	1880
Exons	11608..13211, 13266..13358, 13512..13742, 14019..14960		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51374	Seq. ID	OJ991201_12.0421.C11
Gene No.	108868	Strand	+
Start	11101	End	17903
Name	OJ991201_12.0421.C11.o2.gp	Method	AAT/GAP
Start	14297	End	15073
GI	5002953	Score	465
Exons	14297..14412, 14892..15073		
GI Descrip.	4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51374	Seq. ID	OJ991201_12.0421.C11
Gene No.	108869	Strand	-
Start	4375	End	4599
Name	OJ991201_12.0421.C11.o2.gs	Method	GENSCAN
Start	4375	End	4599

GI none
Exons 4375..4599

Score .99

Seq. No. 51374 Seq. ID OJ991201_12.0421.C11
Gene No. 108870 Strand
Start 12023 End 13117
Name OJ991201_12.0421.C11.o2.tw Method TBLASTX:Wheat
Start 12023 End 12671
GI none Score 225
Exons 12023..12112, 12081..12392, 12215..12391, 12420..12533,
12437..12532, 12546..12671

Seq. No. 51374 Seq. ID OJ991201_12.0421.C11
Gene No. 108870 Strand
Start 12023 End 13117
Name OJ991201_12.0421.C11.o1.ts Method TBLASTX:Soybean
Start 12270 End 12689
GI none Score 126
Exons 12270..12392, 12270..12392, 12414..12689, 12440..12685

Seq. No. 51374 Seq. ID OJ991201_12.0421.C11
Gene No. 108870 Strand
Start 12023 End 13117
Name OJ991201_12.0421.C11.o1.tc Method TBLASTX:Cress
Start 12420 End 12767
GI none Score 312
Exons 12420..12767, 12437..12574, 12611..12667, 12692..12766

Seq. No. 51374 Seq. ID OJ991201_12.0421.C11
Gene No. 108870 Strand
Start 12023 End 13117
Name OJ991201_12.0421.C11.o1.tm Method TBLASTX:Maize
Start 12542 End 13057
GI none Score 218
Exons 12542..12604, 12612..12857, 12662..12853, 12853..13056,
12872..13057

Seq. No. 51374 Seq. ID OJ991201_12.0421.C11
Gene No. 108870 Strand
Start 12023 End 13117
Name OJ991201_12.0421.C11.o3.tw Method TBLASTX:Wheat
Start 12672 End 13023
GI none Score 56
Exons 12672..12713, 12705..12815, 12714..12830, 12722..12817,
12874..13023, 12875..13018

Seq. No. 51374 Seq. ID OJ991201_12.0421.C11
Gene No. 108870 Strand
Start 12023 End 13117
Name OJ991201_12.0421.C11.o2.ts Method TBLASTX:Soybean
Start 12892 End 13117
GI none Score 230
Exons 12892..13047, 12893..13117

Seq. No. 51374 Seq. ID OJ991201_12.0421.C11
Gene No. 108871 Strand
Start 13275 End 13625

Name	OJ991201_12.0421.C11.o4.tw	Method	TBLASTX:Wheat
Start	13275	End	13625
GI	none	Score	159
Exons	13275..13505, 13304..13447, 13541..13624, 13542..13625		

Seq. No.	51374	Seq. ID	OJ991201_12.0421.C11
Gene No.	108872	Strand	
Start	13533	End	14849
Name	OJ991201_12.0421.C11.o2.tm	Method	TBLASTX:Maize
Start	13533	End	14018
GI	none	Score	288
Exons	13533..14018, 13550..13726, 13862..14011		

Seq. No.	51374	Seq. ID	OJ991201_12.0421.C11
Gene No.	108872	Strand	
Start	13533	End	14849
Name	OJ991201_12.0421.C11.o1.tw	Method	TBLASTX:Wheat
Start	13629	End	14849
GI	none	Score	481
Exons	13629..14171, 13673..14158, 14190..14351, 14207..14347, 14355..14546, 14390..14530, 14535..14582, 14589..14627, 14651..14728, 14652..14756, 14757..14849		

Seq. No.	51374	Seq. ID	OJ991201_12.0421.C11
Gene No.	108872	Strand	
Start	13533	End	14849
Name	OJ991201_12.0421.C11.o2.tc	Method	TBLASTX:Cress
Start	13916	End	14342
GI	none	Score	201
Exons	13916..14158, 13920..14171, 14190..14342, 14207..14329		

Seq. No.	51375	Seq. ID	OJ991201_09.0421.C1
Gene No.	108873	Strand	+
Start	1	End	4793
Name	OJ991201_09.0421.C1.o2.np	Method	AAT/NAP
Start	1	End	4793
GI	4680183	Score	110
Exons	1..43, 2084..2242, 4740..4793		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	51375	Seq. ID	OJ991201_09.0421.C1
Gene No.	108873	Strand	+
Start	1	End	4793
Name	OJ991201_09.0421.C1.o3.np	Method	AAT/NAP
Start	1561	End	3514
GI	4680186	Score	130
Exons	1561..1581, 3318..3514		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51375	Seq. ID	OJ991201_09.0421.C1
Gene No.	108874	Strand	+
Start	6664	End	8330
Name	OJ991201_09.0421.C1.o2.gs	Method	GENSCAN
Start	6664	End	8268
GI	none	Score	.49
Exons	6664..6837, 7775..7945, 8101..8268		

Seq. No.	51375	Seq. ID	OJ991201_09.0421.C1
Gene No.	108874	Strand	+
Start	6664	End	8330
Name	OJ991201_09.0421.C1.o5.np	Method	AAT/NAP
Start	8098	End	8330
GI	7489803	Score	129
Exons	8098..8330		
GI Descrip.	pol protein homolog - maize retrotransposon Opie-2 gi 3645899 gb AAC49502.1 (U68408) 5' end not determined experimentally [Zea mays]		

Seq. No.	51375	Seq. ID	OJ991201_09.0421.C1
Gene No.	108875	Strand	-
Start	1	End	6309
Name	OJ991201_09.0421.C1.o1.np	Method	AAT/NAP
Start	1	End	1294
GI	5852182	Score	428
Exons	1..304, 1156..1294		
GI Descrip.	(AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	51375	Seq. ID	OJ991201_09.0421.C1
Gene No.	108875	Strand	-
Start	1	End	6309
Name	OJ991201_09.0421.C1.o1.gs	Method	GENSCAN
Start	21	End	6309
GI	none	Score	.54
Exons	21..304, 1854..1965, 2211..2424, 3227..3364, 3906..3962, 4219..5058, 6249..6309		

Seq. No.	51375	Seq. ID	OJ991201_09.0421.C1
Gene No.	108875	Strand	-
Start	1	End	6309
Name	OJ991201_09.0421.C1.o1.gp	Method	AAT/GAP
Start	163	End	754
GI	2310235	Score	306
Exons	163..304, 717..754		
GI Descrip.	5852182/emb CAB55420.1 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o1.gp	Method	AAT/GAP
Start	1	End	3378
GI	342_1.R1084	Score	5838
Exons	1..2686, 2722..3119, 3151..3378		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o2.gp	Method	AAT/GAP
Start	1	End	3368
GI	342_1.R1084	Score	5822
Exons	1..2686, 2722..3119, 3151..3368		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

sativa]'

Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o3.gp	Method	AAT/GAP
Start	1	End	3403
GI	342 1.R1084	Score	5876
Exons	1..2686, 2722..3119, 3151..3403		
GI Descrip.	'4574406/gb AAD24042.1 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o2.tc	Method	TBLASTX:Cress
Start	71	End	418
GI	none	Score	71
Exons	71..202, 78..164, 110..418, 271..399		

Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o1.np	Method	AAT/NAP
Start	99	End	2055
GI	6742729	Score	3064
Exons	99..2055		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o1.gs	Method	GENSCAN
Start	164	End	9132
GI	none	Score	.42
Exons	164..522, 603..1200, 1572..1791, 1833..2563, 3546..3644, 3650..4391, 4523..4560, 5458..6840, 6915..7056, 7182..7327, 7329..8014, 8126..8299, 8396..8506, 8839..8867, 8996..9132		

Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o2.tw	Method	TBLASTX:Wheat
Start	206	End	674
GI	none	Score	62
Exons	206..259, 214..249, 271..360, 272..364, 368..466, 373..465, 446..505, 469..507, 514..669, 526..669, 537..674, 570..674		

Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	251	End	708
GI	none	Score	228
Exons	251..505, 272..505, 514..708		

Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
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Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o1.ts	Method	TBLASTX:Soybean
Start	538	End	780
GI	none	Score	216
Exons	538..780		
Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o3.tw	Method	TBLASTX:Wheat
Start	813	End	1223
GI	none	Score	87
Exons	813..863, 814..876, 882..1064, 886..1104, 1137..1223, 1138..1221		
Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o1.tw	Method	TBLASTX:Wheat
Start	1224	End	2533
GI	none	Score	108
Exons	1224..1394, 1224..1388, 1225..1395, 1228..1392, 1392..1820, 1393..1689, 1394..1822, 1427..1837, 1826..2140, 1829..2125, 2135..2179, 2139..2174, 2182..2277, 2186..2245, 2224..2364, 2225..2365, 2378..2458, 2447..2533		
Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o2.tm	Method	TBLASTX:Maize
Start	1267	End	1580
GI	none	Score	123
Exons	1267..1395, 1278..1412, 1382..1552, 1392..1580, 1422..1580		
Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o1.tc	Method	TBLASTX:Cress
Start	1507	End	1957
GI	none	Score	228
Exons	1507..1689, 1511..1822, 1515..1820, 1521..1829, 1826..1957, 1828..1953, 1829..1957		
Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o4.np	Method	AAT/NAP
Start	5443	End	9710
GI	4680204	Score	1018
Exons	5443..6840, 6915..8014, 8126..8299, 8396..8544, 8909..9076, 9673..9710		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o5.np	Method	AAT/NAP

Start	5443	End	9111
GI	4680204	Score	1015
Exons	5443..6840, 6915..8014, 8126..8299, 8396..8544, 8909..9111		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o4.tw	Method	TBLASTX:Wheat
Start	6086	End	6489
GI	none	Score	223
Exons	6086..6202, 6088..6324, 6088..6237, 6189..6356, 6319..6489, 6394..6489		

Seq. No.	51376	Seq. ID	OJ991201_09.0421.C4
Gene No.	108876	Strand	+
Start	1	End	9710
Name	OJ991201_09.0421.C4.o6.gp	Method	AAT/GAP
Start	7436	End	7914
GI	uC-osflcyp176f10b1	Score	874
Exons	7436..7914		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	51377	Seq. ID	OJ991201_09.0421.C5
Gene No.	108877	Strand	+
Start	4	End	146
Name	OJ991201_09.0421.C5.o1.gp	Method	AAT/GAP
Start	4	End	146
GI	21474 1.R1084	Score	245
Exons	4..146		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	51377	Seq. ID	OJ991201_09.0421.C5
Gene No.	108878	Strand	+
Start	213	End	431
Name	OJ991201_09.0421.C5.o1.gs	Method	GENSCAN
Start	213	End	431
GI	none	Score	1
Exons	213..431		

Seq. No.	51377	Seq. ID	OJ991201_09.0421.C5
Gene No.	108879	Strand	-
Start	1	End	3357
Name	OJ991201_09.0421.C5.o1.np	Method	AAT/NAP
Start	1	End	3357
GI	5734709	Score	76
Exons	1..36, 202..354, 1211..1479, 2302..2373, 3314..3357		
GI Descrip.	(AC008075) Contains PF 00069 Eukaryotic protein kinase domain. [Arabidopsis thaliana]		

Seq. No.	51378	Seq. ID	OJ991201_09.0421.C6
Gene No.	108880	Strand	+
Start	7473	End	9585
Name	OJ991201_09.0421.C6.o2.np	Method	AAT/NAP

Start	7473	End	9585
GI	7523517	Score	240
Exons	7473..7783, 7928..7994, 9547..9585		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	51378	Seq. ID	OJ991201_09.0421.C6
Gene No.	108881	Strand	+
Start	22545	End	23147
Name	OJ991201_09.0421.C6.o1.gp	Method	AAT/GAP
Start	22545	End	23147
GI	8998 1.R1084	Score	939
Exons	22545..22825, 22907..23147		
GI Descrip.	'6015437/dbj AB008112.1 AB008112 2.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	51378	Seq. ID	OJ991201_09.0421.C6
Gene No.	108882	Strand	+
Start	23188	End	30090
Name	OJ991201_09.0421.C6.o2.gp	Method	AAT/GAP
Start	23188	End	26368
GI	LIB3431-037-P1-N1-E10	Score	864
Exons	23188..23246, 24762..24866, 25222..25275, 26125..26368		
GI Descrip.	'5852182/emb CAB55420.1 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	51378	Seq. ID	OJ991201_09.0421.C6
Gene No.	108882	Strand	+
Start	23188	End	30090
Name	OJ991201_09.0421.C6.o4.np	Method	AAT/NAP
Start	26165	End	30090
GI	6742729	Score	884
Exons	26165..26195, 27710..28594, 30031..30090		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	51378	Seq. ID	OJ991201_09.0421.C6
Gene No.	108883	Strand	+
Start	30458	End	32079
Name	OJ991201_09.0421.C6.o5.np	Method	AAT/NAP
Start	30458	End	32079
GI	6907086	Score	1139
Exons	30458..31203, 31261..31433, 31621..32079		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	51378	Seq. ID	OJ991201_09.0421.C6
Gene No.	108884	Strand	-
Start	1	End	18598
Name	OJ991201_09.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	18531
GI	3980411	Score	130
Exons	1..81, 4410..4685, 4857..5143, 5793..6151, 12136..12223, 17291..17411, 18486..18531		
GI Descrip.	(AC004561) putative proline-rich protein [Arabidopsis thaliana]		

Seq. No.	51378	Seq. ID	OJ991201_09.0421.C6
Gene No.	108884	Strand	-
Start	1	End	18598
Name	OJ991201_09.0421.C6.o1.gs	Method	GENSCAN

Start 10
GI none
Exons 10..1246, 1625..1646

End 1646
Score .89

Seq. No. 51378 Seq. ID OJ991201_09.0421.C6
Gene No. 108884 Strand -
Start 1 End 18598
Name OJ991201_09.0421.C6.o3.np Method AAT/NAP
Start 11981 End 18598
GI 133446 Score 193
Exons 11981..12004, 13730..14014, 18578..18598
GI Descrip. DNA-DIRECTED RNA POLYMERASE BETA" CHAIN gi|66986|pir||RNRZC2
DNA-directed RNA polymerase (EC 2.7.7.6) beta'-2 chain - rice
chloroplast gi|11973|emb|CAA33988| (X15901) RNA polymerase beta'
subunit-2 [Oryza sativa]

Seq. No. 51378 Seq. ID OJ991201_09.0421.C6
Gene No. 108885 Strand -
Start 33716 End 34269
Name OJ991201_09.0421.C6.o1.tw Method TBLASTX:Wheat
Start 27878 End 28324
GI none Score 75
Exons 27878..27928, 27879..27956, 27986..28168, 27986..28168,
28196..28324, 28203..28322

Seq. No. 51378 Seq. ID OJ991201_09.0421.C6
Gene No. 108885 Strand -
Start 33716 End 34269
Name OJ991201_09.0421.C6.o2.tw Method TBLASTX:Wheat
Start 28338 End 28597
GI none Score 39
Exons 28338..28592, 28339..28377, 28354..28593, 28401..28595,
28415..28597

Seq. No. 51378 Seq. ID OJ991201_09.0421.C6
Gene No. 108885 Strand -
Start 33716 End 34269
Name OJ991201_09.0421.C6.o6.gs Method GENSCAN
Start 33716 End 34269
GI none Score .72
Exons 33716..33809, 34091..34113, 34243..34269

Seq. No. 51379 Seq. ID OJ991201_09.0421.C7
Gene No. 108886 Strand +
Start 1 End 6899
Name OJ991201_09.0421.C7.o1.gs Method GENSCAN
Start 1 End 5342
GI none Score .6
Exons 1..125, 2216..2659, 2678..2796, 4240..4538, 4564..4689,
4785..4919, 5133..5342

Seq. No. 51379 Seq. ID OJ991201_09.0421.C7
Gene No. 108886 Strand +
Start 1 End 6899
Name OJ991201_09.0421.C7.o1.np Method AAT/NAP
Start 2186 End 6899
GI 5922620 Score 99

Exons 2186..2214, 4908..5053, 5232..5435, 6760..6899
 GI Descrip. (AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]
 gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	51379	Seq. ID	OJ991201_09.0421.C7
Gene No.	108887	Strand	+
Start	13331	End	15736
Name	OJ991201_09.0421.C7.o4.gs	Method	GENSCAN
Start	13331	End	15736
GI	none	Score	.45
Exons	13331..13424, 14639..14724, 15431..15476, 15615..15736		

Seq. No.	51379	Seq. ID	OJ991201_09.0421.C7
Gene No.	108888	Strand	+
Start	16934	End	18371
Name	OJ991201_09.0421.C7.o5.gs	Method	GENSCAN
Start	16934	End	18371
GI	none	Score	.75
Exons	16934..16942, 17440..17533, 17677..17763, 18313..18371		

Seq. No.	51379	Seq. ID	OJ991201_09.0421.C7
Gene No.	108889	Strand	+
Start	20530	End	23025
Name	OJ991201_09.0421.C7.o1.gp	Method	AAT/GAP
Start	20432	End	21068
GI	701983	Score	636
Exons	20432..20709, 20996..21068		

Seq. No.	51379	Seq. ID	OJ991201_09.0421.C7
Gene No.	108889	Strand	+
Start	20530	End	23025
Name	OJ991201_09.0421.C7.o6.gs	Method	GENSCAN
Start	20530	End	23025
GI	none	Score	.52
Exons	20530..20709, 20996..21143, 21148..21349, 21448..21629, 22023..22133, 22904..23025		

Seq. No.	51379	Seq. ID	OJ991201_09.0421.C7
Gene No.	108890	Strand	-
Start	5858	End	7609
Name	OJ991201_09.0421.C7.o2.gs	Method	GENSCAN
Start	5858	End	7609
GI	none	Score	.46
Exons	5858..6033, 6268..6288, 6356..6471, 7584..7609		

Seq. No.	51379	Seq. ID	OJ991201_09.0421.C7
Gene No.	108891	Strand	-
Start	9191	End	11538
Name	OJ991201_09.0421.C7.o2.np	Method	AAT/NAP
Start	9189	End	9665
GI	7486946	Score	113
Exons	9189..9665		
GI Descrip.	hypothetical protein T13E15.6 - Arabidopsis thaliana gi 2344891 gb AAC31831.1 (AC002388) hypothetical protein		

[*Arabidopsis thaliana*]

Seq. No.	51379	Seq. ID	OJ991201_09.0421.C7
Gene No.	108891	Strand	-
Start	9191	End	11538
Name	OJ991201_09.0421.C7.o3.gs	Method	GENSCAN
Start	9191	End	11538
GI	none	Score	.9
Exons	9191..10670, 11492..11538		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108892	Strand	+
Start	11334	End	11932
Name	OJ991201_09.0421.C10.o4.gs	Method	GENSCAN
Start	11334	End	11932
GI	none	Score	.61
Exons	11334..11613, 11682..11932		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108893	Strand	+
Start	13254	End	13769
Name	OJ991201_09.0421.C10.o5.gs	Method	GENSCAN
Start	13254	End	13769
GI	none	Score	.66
Exons	13254..13499, 13530..13769		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108894	Strand	-
Start	1	End	10241
Name	OJ991201_09.0421.C10.o1.np	Method	AAT/NAP
Start	1	End	5897
GI	6466937	Score	2285
Exons	1..3591, 3640..4257, 5831..5897		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [<i>Arabidopsis thaliana</i>]		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108894	Strand	-
Start	1	End	10241
Name	OJ991201_09.0421.C10.o1.gs	Method	GENSCAN
Start	375	End	5271
GI	none	Score	.58
Exons	375..539, 1113..1222, 1388..1528, 1817..2068, 2203..3198, 3343..3514, 3667..4755, 4838..4941, 5133..5271		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108894	Strand	-
Start	1	End	10241
Name	OJ991201_09.0421.C10.o2.np	Method	AAT/NAP
Start	5512	End	10241
GI	119714	Score	174
Exons	5512..5888, 7708..7921, 8201..8485, 8902..9260, 9832..10241		
GI Descrip.	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) gi 82169 pir S06733 hydroxyproline-rich glycoprotein precursor - common tobacco gi 19867 emb CAA32090 (X13885) extensin (AA 1-620) [<i>Nicotiana tabacum</i>]		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108894	Strand	-
Start	1	End	10241
Name	OJ991201_09.0421.C10.o2.gs	Method	GENSCAN
Start	7201	End	8430
GI	none	Score	.42
Exons	7201..7220, 7887..8091, 8155..8430		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108894	Strand	-
Start	1	End	10241
Name	OJ991201_09.0421.C10.o3.gs	Method	GENSCAN
Start	8874	End	9925
GI	none	Score	.94
Exons	8874..9251, 9545..9925		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108895	Strand	-
Start	11283	End	14945
Name	OJ991201_09.0421.C10.o3.np	Method	AAT/NAP
Start	11283	End	14843
GI	5922620	Score	681
Exons	11283..11414, 12686..12909, 12956..13118, 13677..13710, 14581..14605, 14651..14764, 14805..14843		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1 (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108895	Strand	-
Start	11283	End	14945
Name	OJ991201_09.0421.C10.o6.gs	Method	GENSCAN
Start	14089	End	14945
GI	none	Score	.93
Exons	14089..14267, 14581..14605, 14651..14764, 14892..14945		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o4.tm	Method	TBLASTX:Maize
Start	297	End	656
GI	none	Score	140
Exons	297..656, 307..525		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o5.tw	Method	TBLASTX:Wheat
Start	297	End	444
GI	none	Score	71
Exons	297..443, 307..444		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253

Name	OJ991201_09.0421.C10.o1.tw	Method	TBLASTX:Wheat
Start	450	End	1043
GI	none	Score	304
Exons	450..602, 657..1043		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	663	End	1298
GI	none	Score	238
Exons	663..1136, 663..1298, 664..1212		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o1.ts	Method	TBLASTX:Soybean
Start	891	End	1274
GI	none	Score	116
Exons	891..1274, 982..1203		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o3.tw	Method	TBLASTX:Wheat
Start	1131	End	1529
GI	none	Score	112
Exons	1131..1529, 1132..1374		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o2.tm	Method	TBLASTX:Maize
Start	1548	End	2042
GI	none	Score	185
Exons	1548..2009, 1548..2042, 1555..2025		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o2.ts	Method	TBLASTX:Soybean
Start	1710	End	1965
GI	none	Score	65
Exons	1710..1964, 1815..1928, 1816..1965		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o4.tw	Method	TBLASTX:Wheat
Start	1875	End	2257
GI	none	Score	79
Exons	1875..2069, 1912..2085, 2096..2257, 2100..2255		
Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o6.tm	Method	TBLASTX:Maize

Start	2135	End	2395
GI	none	Score	148
Exons	2135..2392, 2135..2287, 2333..2395		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o2.tw	Method	TBLASTX:Wheat
Start	2336	End	2788
GI	none	Score	51
Exons	2336..2788, 2340..2402, 2342..2638, 2427..2780		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o3.tm	Method	TBLASTX:Maize
Start	2411	End	2893
GI	none	Score	288
Exons	2411..2893, 2433..2843		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o3.ts	Method	TBLASTX:Soybean
Start	2438	End	2752
GI	none	Score	203
Exons	2438..2752		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o5.tm	Method	TBLASTX:Maize
Start	2948	End	3619
GI	none	Score	50
Exons	2948..3082, 3028..3087, 3173..3421, 3186..3479, 3482..3619, 3519..3587		

Seq. No.	51380	Seq. ID	OJ991201_09.0421.C10
Gene No.	108896	Strand	-
Start	15121	End	16253
Name	OJ991201_09.0421.C10.o4.np	Method	AAT/NAP
Start	15121	End	16253
GI	5922620	Score	152
Exons	15121..15263, 16233..16253		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1 (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51381	Seq. ID	OJ991201_09.0421.C11
Gene No.	108897	Strand	+
Start	1043	End	4076
Name	OJ991201_09.0421.C11.o1.np	Method	AAT/NAP
Start	1043	End	2763
GI	6907087	Score	999
Exons	1043..2123, 2662..2763		

GI Descrip. (AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	51381	Seq. ID	OJ991201_09.0421.C11
Gene No.	108897	Strand	+
Start	1043	End	4076
Name	OJ991201_09.0421.C11.o1.gs	Method	GENSCAN
Start	1280	End	4076
GI	none	Score	.6
Exons	1280..1462, 1527..2123, 2662..2743, 4048..4076		

Seq. No.	51381	Seq. ID	OJ991201_09.0421.C11
Gene No.	108897	Strand	+
Start	1043	End	4076
Name	OJ991201_09.0421.C11.o1.gp	Method	AAT/GAP
Start	3224	End	3606
GI	uC-osflcyp033a04b1	Score	676
Exons	3224..3606		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51381	Seq. ID	OJ991201_09.0421.C11
Gene No.	108898	Strand	-
Start	3154	End	5101
Name	OJ991201_09.0421.C11.o2.np	Method	AAT/NAP
Start	3154	End	5101
GI	4680186	Score	237
Exons	3154..3362, 5074..5101		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51381	Seq. ID	OJ991201_09.0421.C11
Gene No.	108899	Strand	-
Start	7936	End	9745
Name	OJ991201_09.0421.C11.o2.gs	Method	GENSCAN
Start	7936	End	9745
GI	none	Score	.44
Exons	7936..7956, 9309..9479, 9692..9745		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108900	Strand	+
Start	60	End	912
Name	OJ991201_09.0421.C12.o1.gs	Method	GENSCAN
Start	60	End	912
GI	none	Score	.97
Exons	60..135, 777..912		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	2141	End	2836
GI	none	Score	103
Exons	2141..2452, 2162..2836, 2205..2810		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-

Start	2141	End	5114
Name	OJ991201_09.0421.C12.o2.gs	Method	GENSCAN
Start	2141	End	3982
GI	none	Score	.58
Exons	2141..2453, 2676..3023, 3204..3982		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o1.np	Method	AAT/NAP
Start	2147	End	5114
GI	3777527	Score	2012
Exons	2147..3957, 4084..5114		
GI Descrip.	(AF053008) gag-pol polyprotein [Glycine max]		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o3.tc	Method	TBLASTX:Cress
Start	2162	End	2527
GI	none	Score	80
Exons	2162..2407, 2396..2527		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o2.ts	Method	TBLASTX:Soybean
Start	2168	End	2800
GI	none	Score	39
Exons	2168..2392, 2286..2378, 2411..2800, 2454..2612		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o4.tw	Method	TBLASTX:Wheat
Start	2207	End	2527
GI	none	Score	75
Exons	2207..2380, 2207..2383, 2402..2527		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o3.tw	Method	TBLASTX:Wheat
Start	2564	End	2995
GI	none	Score	109
Exons	2564..2821, 2846..2995		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o4.ts	Method	TBLASTX:Soybean
Start	2801	End	3034
GI	none	Score	81
Exons	2801..3034, 2871..3017		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-

Start	2141	End	5114
Name	OJ991201_09.0421.C12.o4.tm	Method	TBLASTX:Maize
Start	2840	End	3001
GI	none	Score	95
Exons	2840..3001, 2864..2998		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o3.tm	Method	TBLASTX:Maize
Start	3056	End	3518
GI	none	Score	187
Exons	3056..3328, 3069..3329, 3332..3517, 3333..3518		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o1.ts	Method	TBLASTX:Soybean
Start	3174	End	3793
GI	5509260	Score	125
Exons	3174..3326, 3176..3328, 3199..3327, 3331..3384, 3332..3724, 3333..3704, 3422..3709, 3743..3793		

GI Descrip. -

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o1.tw	Method	TBLASTX:Wheat
Start	3185	End	3665
GI	none	Score	96
Exons	3185..3328, 3189..3329, 3329..3364, 3332..3541, 3334..3366, 3396..3533, 3410..3535, 3542..3577, 3581..3664, 3585..3665		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o2.tc	Method	TBLASTX:Cress
Start	3332	End	3560
GI	none	Score	104
Exons	3332..3556, 3333..3560		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o2.tm	Method	TBLASTX:Maize
Start	4082	End	4717
GI	none	Score	224
Exons	4082..4237, 4228..4521, 4235..4522, 4502..4651, 4533..4628, 4650..4712, 4652..4717		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o3.ts	Method	TBLASTX:Soybean
Start	4082	End	4529
GI	none	Score	160
Exons	4082..4210, 4231..4524, 4238..4522, 4353..4529		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o1.tc	Method	TBLASTX:Cress
Start	4088	End	4530
GI	none	Score	65
Exons	4088..4210, 4234..4530, 4439..4522		

Seq. No.	51382	Seq. ID	OJ991201_09.0421.C12
Gene No.	108901	Strand	-
Start	2141	End	5114
Name	OJ991201_09.0421.C12.o2.tw	Method	TBLASTX:Wheat
Start	4384	End	4942
GI	none	Score	102
Exons	4384..4521, 4385..4486, 4529..4672, 4533..4571, 4712..4942		

Seq. No.	51383	Seq. ID	OJ991201_03.0421.C2
Gene No.	108902	Strand	+
Start	1	End	888
Name	OJ991201_03.0421.C2.o1.np	Method	AAT/NAP
Start	1	End	888
GI	6983857	Score	421
Exons	1..888		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		

Seq. No.	51383	Seq. ID	OJ991201_03.0421.C2
Gene No.	108902	Strand	+
Start	1	End	888
Name	OJ991201_03.0421.C2.o1.gs	Method	GENSCAN
Start	419	End	815
GI	none	Score	.91
Exons	419..815		

Seq. No.	51384	Seq. ID	OJ991201_03.0421.C3
Gene No.	108903	Strand	-
Start	104	End	2197
Name	OJ991201_03.0421.C3.o1.gs	Method	GENSCAN
Start	104	End	2197
GI	none	Score	.66
Exons	104..326, 1177..1448, 1575..1629, 2052..2197		

Seq. No.	51384	Seq. ID	OJ991201_03.0421.C3
Gene No.	108904	Strand	-
Start	2989	End	3449
Name	OJ991201_03.0421.C3.o1.gp	Method	AAT/GAP
Start	2989	End	3449
GI	5056128	Score	856
Exons	2989..3449		

Seq. No.	51384	Seq. ID	OJ991201_03.0421.C3
Gene No.	108905	Strand	-
Start	3867	End	4355
Name	OJ991201_03.0421.C3.o2.gp	Method	AAT/GAP
Start	3867	End	4355
GI	702309	Score	866
Exons	3867..4355		

Seq. No.	51384	Seq. ID	OJ991201_03.0421.C3
Gene No.	108906	Strand	-
Start	5389	End	5730
Name	OJ991201_03.0421.C3.o1.np	Method	AAT/NAP
Start	5389	End	5730
GI	6630451	Score	218
Exons	5389..5730		
GI Descrip.	(AC007190) F23N19.16 [Arabidopsis thaliana]		

Seq. No.	51384	Seq. ID	OJ991201_03.0421.C3
Gene No.	108907	Strand	-
Start	8186	End	9248
Name	OJ991201_03.0421.C3.o2.tm	Method	TBLASTX:Maize
Start	92	End	356
GI	none	Score	120
Exons	92..190, 93..191, 217..321, 222..338, 236..346, 237..356		

Seq. No.	51384	Seq. ID	OJ991201_03.0421.C3
Gene No.	108907	Strand	-
Start	8186	End	9248
Name	OJ991201_03.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	5422	End	5670
GI	none	Score	236
Exons	5422..5670, 5423..5656		

Seq. No.	51384	Seq. ID	OJ991201_03.0421.C3
Gene No.	108907	Strand	-
Start	8186	End	9248
Name	OJ991201_03.0421.C3.o1.ts	Method	TBLASTX:Soybean
Start	5428	End	5665
GI	none	Score	93
Exons	5428..5664, 5432..5665		

Seq. No.	51384	Seq. ID	OJ991201_03.0421.C3
Gene No.	108907	Strand	-
Start	8186	End	9248
Name	OJ991201_03.0421.C3.o3.gs	Method	GENSCAN
Start	8186	End	9248
GI	none	Score	.75
Exons	8186..8290, 9160..9248		

Seq. No.	51385	Seq. ID	OJ991201_03.0421.C4
Gene No.	108908	Strand	-
Start	1200	End	1631
Name	OJ991201_03.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	1200	End	1475
GI	none	Score	251
Exons	1200..1475, 1220..1306		

Seq. No.	51385	Seq. ID	OJ991201_03.0421.C4
Gene No.	108908	Strand	-
Start	1200	End	1631
Name	OJ991201_03.0421.C4.o1.tw	Method	TBLASTX:Wheat
Start	1239	End	1631
GI	none	Score	204
Exons	1239..1631		

Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o1.np	Method	AAT/NAP
Start	1	End	3791
GI	4378066	Score	3106
Exons	1..3791		
GI Descrip.	(AF098806) polyprotein [Sorghum bicolor] gi 4680208 gb AAD27571.1 AF114171_12 (AF114171) polyprotein [Sorghum bicolor]		

Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o5.tw	Method	TBLASTX:Wheat
Start	154	End	500
GI	none	Score	62
Exons	154..264, 271..492, 310..465, 459..500		

Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	723	End	1152
GI	none	Score	478
Exons	723..1151, 727..1152		

Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	826	End	1182
GI	none	Score	449
Exons	826..1182, 834..1169, 944..1171		

Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o2.tm	Method	TBLASTX:Maize
Start	1209	End	1593
GI	none	Score	402
Exons	1209..1580, 1210..1593, 1270..1590		

Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o2.tw	Method	TBLASTX:Wheat
Start	1267	End	1686
GI	none	Score	439
Exons	1267..1686, 1270..1332, 1272..1580, 1573..1659		

Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	1345	End	1773

GI	none	Score	300
Exons	1345..1773, 1350..1700		
Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o7.tw	Method	TBLASTX:Wheat
Start	1692	End	1959
GI	none	Score	73
Exons	1692..1763, 1693..1764, 1771..1959, 1776..1958		
Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o3.tw	Method	TBLASTX:Wheat
Start	1960	End	2375
GI	none	Score	282
Exons	1960..2061, 1963..2373, 1968..2075, 2157..2375		
Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o3.tm	Method	TBLASTX:Maize
Start	2569	End	3026
GI	none	Score	331
Exons	2569..2952, 2673..2900, 2958..3026, 2963..3025		
Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o4.tw	Method	TBLASTX:Wheat
Start	2677	End	3065
GI	none	Score	222
Exons	2677..2958, 2718..2840, 2904..2960, 2952..3065		
Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o2.ts	Method	TBLASTX:Soybean
Start	2866	End	3212
GI	none	Score	58
Exons	2866..2958, 2988..3212		
Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o5.tm	Method	TBLASTX:Maize
Start	3027	End	3196
GI	none	Score	216
Exons	3027..3194, 3029..3172, 3032..3196		
Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o6.tw	Method	TBLASTX:Wheat
Start	3186	End	3782
GI	none	Score	124

Exons 3186..3290, 3192..3302, 3221..3310, 3233..3319, 3329..3454, 3330..3461, 3657..3782

Seq. No.	51386	Seq. ID	OJ991201_03.0421.C5
Gene No.	108909	Strand	+
Start	1	End	3791
Name	OJ991201_03.0421.C5.o4.tm	Method	TBLASTX:Maize
Start	3228	End	3464
GI	none	Score	218
Exons	3228..3464, 3245..3436		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108910	Strand	+
Start	7709	End	10974
Name	OJ991201_03.0421.C6.o2.gs	Method	GENSCAN
Start	7709	End	10974
GI	none	Score	.45
Exons	7709..7756, 10132..10261, 10528..10612, 10827..10974		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108911	Strand	+
Start	12044	End	15392
Name	OJ991201_03.0421.C6.o3.gs	Method	GENSCAN
Start	12044	End	15392
GI	none	Score	.69
Exons	12044..12254, 14301..14431, 14766..14817, 15190..15392		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108912	Strand	+
Start	15929	End	16586
Name	OJ991201_03.0421.C6.o4.gs	Method	GENSCAN
Start	15929	End	16586
GI	none	Score	.76
Exons	15929..16007, 16131..16173, 16478..16586		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108913	Strand	+
Start	17391	End	18037
Name	OJ991201_03.0421.C6.o2.gp	Method	AAT/GAP
Start	17391	End	18037
GI	LIB3431-025-P1-K1-F7	Score	1239
Exons	17391..18037		
GI Descrip.	'4938484/emb CAB43843.1 2.0e-24 (AL078464) transcription factor-like protein [Arabidopsis thaliana]'		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108914	Strand	+
Start	19229	End	19704
Name	OJ991201_03.0421.C6.o3.gp	Method	AAT/GAP
Start	19229	End	19704
GI	3762230	Score	920
Exons	19229..19704		
GI Descrip.	4938484/emb CAB43843.1 2.0e-24 (AL078464) transcription factor-like protein [Arabidopsis thaliana]		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108915	Strand	-

Start	1169	End	4660
Name	OJ991201_03.0421.C6.o1.gs	Method	GENSCAN
Start	1169	End	4660
GI	none	Score	.86
Exons	1169..1331, 1333..1499, 1684..2580, 2620..2888, 2946..3261, 3349..3737, 3844..4321, 4397..4660		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108916	Strand	-
Start	17378	End	19579
Name	OJ991201_03.0421.C6.o1.np	Method	AAT/NAP
Start	17378	End	19567
GI	7484815	Score	1628
Exons	17378..17727, 17770..18301, 18456..19567		
GI Descrip.	auxin response factor 7 homolog F6G3.110 - Arabidopsis thaliana gi 4938484 emb CAB43843.1 (AL078464) transcription factor-like protein [Arabidopsis thaliana] gi 7269908 emb CAB81001.1 (AL161576) transcription factor-like protein [Arabidopsis thaliana]		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108916	Strand	-
Start	17378	End	19579
Name	OJ991201_03.0421.C6.o5.gs	Method	GENSCAN
Start	17378	End	19579
GI	none	Score	.78
Exons	17378..19579		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o4.ts	Method	TBLASTX:Soybean
Start	16791	End	17599
GI	none	Score	156
Exons	16791..16859, 17394..17579, 17396..17599		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	17394	End	17620
GI	none	Score	214
Exons	17394..17582, 17396..17620, 17411..17620		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o3.tm	Method	TBLASTX:Maize
Start	17394	End	17626
GI	none	Score	228
Exons	17394..17582, 17396..17626, 17410..17613		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o4.tc	Method	TBLASTX:Cress
Start	17394	End	17857

GI	none	Score	57
Exons	17394..17474, 17396..17473, 17460..17579, 17468..17596, 17777..17857		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o2.tm	Method	TBLASTX:Maize
Start	17633	End	18305
GI	none	Score	76
Exons	17633..17863, 17754..17831, 17849..17923, 17853..17897, 17891..17944, 17933..17962, 17938..18087, 17960..18094, 17962..18087, 17970..18095, 18107..18187, 18111..18188, 18258..18305, 18260..18304		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	17774	End	18731
GI	none	Score	37
Exons	17774..17935, 17785..17886, 17954..18001, 17976..18089, 17997..18092, 17999..18091, 18055..18102, 18090..18125, 18110..18154, 18149..18304, 18155..18304, 18171..18323, 18441..18482, 18442..18483, 18452..18487, 18485..18682, 18485..18697, 18489..18731		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o2.tc	Method	TBLASTX:Cress
Start	18485	End	18719
GI	none	Score	214
Exons	18485..18697, 18489..18719		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	18875	End	19193
GI	none	Score	90
Exons	18875..19060, 18893..19192, 18894..19193		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	18923	End	19384
GI	none	Score	142
Exons	18923..19051, 18923..19213, 18927..19211, 19277..19384, 19293..19382		

Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o2.ts	Method	TBLASTX:Soybean
Start	18932	End	19216

GI	none	Score	275
Exons	18932..19216, 18936..19202		
Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o3.ts	Method	TBLASTX:Soybean
Start	19268	End	19586
GI	none	Score	66
Exons	19268..19387, 19308..19385, 19415..19552, 19416..19586		
Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o3.tc	Method	TBLASTX:Cress
Start	19277	End	19538
GI	none	Score	85
Exons	19277..19414, 19290..19424, 19421..19537, 19422..19538		
Seq. No.	51387	Seq. ID	OJ991201_03.0421.C6
Gene No.	108917	Strand	-
Start	19692	End	20192
Name	OJ991201_03.0421.C6.o4.gp	Method	AAT/GAP
Start	19692	End	20192
GI	3762362	Score	611
Exons	19692..19773, 19933..20192		
Seq. No.	51388	Seq. ID	OJ991201_03.0421.C7
Gene No.	108918	Strand	-
Start	3482	End	4213
Name	OJ991201_03.0421.C7.o1.gs	Method	GENSCAN
Start	3482	End	4213
GI	none	Score	.73
Exons	3482..3535, 3677..3752, 3798..4013, 4203..4213		
Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108919	Strand	+
Start	159	End	6535
Name	OJ991201_03.0421.C9.o1.gs	Method	GENSCAN
Start	159	End	6535
GI	none	Score	.6
Exons	159..184, 1492..1503, 6298..6535		
Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108920	Strand	+
Start	15797	End	17761
Name	OJ991201_03.0421.C9.o3.gs	Method	GENSCAN
Start	15797	End	17761
GI	none	Score	.98
Exons	15797..17029, 17142..17300, 17444..17761		
Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108921	Strand	+
Start	19909	End	20276
Name	OJ991201_03.0421.C9.o2.gp	Method	AAT/GAP
Start	19909	End	20276
GI	uC-osf1M202084h03a1	Score	716

Exons 19909..20276
 GI Descrip. '4490707/emb|CAB38841.1| 1.0e-19 (AL035680) putative protein [Arabidopsis thaliana]'

Seq. No. 51389 Seq. ID OJ991201_03.0421.C9
 Gene No. 108922 Strand -
 Start 7607 End 15091
 Name OJ991201_03.0421.C9.o2.gs Method GENSCAN
 Start 7607 End 15082
 GI none Score .58
 Exons 7607..7718, 7741..7889, 8850..8997, 9735..9894, 10046..10184, 10327..10680, 10822..11071, 11525..11601, 11936..12037, 12108..12226, 12474..12597, 13507..13605, 14472..14568, 14651..14694, 14975..15082

Seq. No. 51389 Seq. ID OJ991201_03.0421.C9
 Gene No. 108922 Strand -
 Start 7607 End 15091
 Name OJ991201_03.0421.C9.o1.gp Method AAT/GAP
 Start 9529 End 11038
 GI 71246 1.R1084 Score 1998
 Exons 9529..9894, 10049..10184, 10327..10680, 10809..11038
 GI Descrip. '4803944/gb|AAD29817.1|AC006264_25 5.0e-53 (AC006264) putative C2-domain protein (prosite: PD0C00380) [Arabidopsis thaliana]'

Seq. No. 51389 Seq. ID OJ991201_03.0421.C9
 Gene No. 108922 Strand -
 Start 7607 End 15091
 Name OJ991201_03.0421.C9.o1.np Method AAT/NAP
 Start 9766 End 15091
 GI 4803944 Score 1107
 Exons 9766..9894, 10053..10184, 10327..10680, 10822..11068, 11525..11601, 11793..11867, 11936..12037, 12108..12226, 12474..12597, 13507..13605, 14981..15091
 GI Descrip. (AC006264) unknown protein [Arabidopsis thaliana]

Seq. No. 51389 Seq. ID OJ991201_03.0421.C9
 Gene No. 108923 Strand -
 Start 19933 End 21983
 Name OJ991201_03.0421.C9.o2.ts Method TBLASTX:Soybean
 Start 9758 End 12032
 GI none Score 87
 Exons 9758..9895, 9772..9897, 10066..10182, 10086..10181, 10327..10443, 10337..10444, 10504..10683, 10504..10683, 10819..11073, 10820..11068, 11524..11619, 11793..11870, 11812..11880, 11921..12022, 11937..12032

Seq. No. 51389 Seq. ID OJ991201_03.0421.C9
 Gene No. 108923 Strand -
 Start 19933 End 21983
 Name OJ991201_03.0421.C9.o3.tm Method TBLASTX:Maize
 Start 9772 End 12600
 GI none Score 95
 Exons 9772..9897, 9773..9895, 10053..10187, 10083..10187, 10324..10443, 10325..10519, 10504..10683, 10513..10683, 10643..10696, 10782..10871, 10819..11073, 10820..11068, 10864..10938, 11524..11619, 11785..11871, 11787..11870,

11921..12022, 11937..12032, 12105..12227, 12457..12600

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o2.tc	Method	TBLASTX:Cress
Start	10826	End	11586
GI	none	Score	139
Exons	10826..11068, 10828..11067, 11518..11586		

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o3.tc	Method	TBLASTX:Cress
Start	11785	End	12221
GI	none	Score	70
Exons	11785..11880, 11790..11870, 11921..12010, 11937..12041, 12105..12221		

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o4.gs	Method	GENSCAN
Start	19933	End	21983
GI	none	Score	.53
Exons	19933..20703, 20802..21983		

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o2.np	Method	AAT/NAP
Start	19941	End	21866
GI	7487380	Score	1752
Exons	19941..21866		
GI Descrip.	hypothetical protein T24A18.60 - Arabidopsis thaliana gi 4490707 emb CAB38841.1 (AL035680) putative protein [Arabidopsis thaliana] gi 7269564 emb CAB79566.1 (AL161566) putative protein [Arabidopsis thaliana]		

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	20044	End	21827
GI	none	Score	71
Exons	20044..20190, 20129..20185, 20191..20262, 20254..20616, 20336..20536, 20641..21348, 20643..21320, 21369..21716, 21400..21717, 21768..21827		

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o4.tm	Method	TBLASTX:Maize
Start	20044	End	20404
GI	none	Score	51
Exons	20044..20094, 20083..20187, 20150..20179, 20218..20259, 20272..20403, 20273..20404		

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	20062	End	20449
GI	none	Score	69
Exons	20062..20187, 20129..20179, 20218..20262, 20272..20448, 20273..20449		

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	20068	End	21842
GI	none	Score	74
Exons	20068..20187, 20114..20188, 20191..20262, 20192..20260, 20251..20559, 20282..20536, 20641..21090, 20643..21338, 21145..21318, 21343..21384, 21348..21377, 21399..21842, 21400..21717		

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	20410	End	21116
GI	none	Score	92
Exons	20410..20616, 20426..20536, 20640..20837, 20686..20838, 20841..21116, 20842..21081		

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o2.tw	Method	TBLASTX:Wheat
Start	20640	End	20949
GI	none	Score	88
Exons	20640..20837, 20686..20787, 20841..20948, 20842..20949		

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o3.gp	Method	AAT/GAP
Start	20901	End	21339
GI	LIB3477-002-P1-K1-D11	Score	878
Exons	20901..21339		
GI Descrip.	'4490707/emb CAB38841.1 3.0e-49 (AL035680) putative protein [Arabidopsis thaliana]'		

Seq. No.	51389	Seq. ID	OJ991201_03.0421.C9
Gene No.	108923	Strand	-
Start	19933	End	21983
Name	OJ991201_03.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	21117	End	21464
GI	none	Score	225
Exons	21117..21341, 21118..21342, 21133..21231, 21301..21420, 21327..21422, 21328..21423, 21423..21464		

Seq. No.	51390	Seq. ID	OJ991201_03.0421.C10
Gene No.	108924	Strand	+
Start	22	End	2455
Name	OJ991201_03.0421.C10.o1.gs	Method	GENSCAN
Start	22	End	2262
GI	none	Score	.94
Exons	22..1053, 1520..1696, 1849..1950, 2197..2262		

Seq. No.	51390	Seq. ID	OJ991201_03.0421.C10
Gene No.	108924	Strand	+
Start	22	End	2455
Name	OJ991201_03.0421.C10.o1.np	Method	AAT/NAP
Start	163	End	2455
GI	6979336	Score	78
Exons	163..303, 2337..2455		
GI Descrip.	(AF172282) hypothetical protein [Oryza sativa]		

Seq. No.	51390	Seq. ID	OJ991201_03.0421.C10
Gene No.	108925	Strand	-
Start	3441	End	4541
Name	OJ991201_03.0421.C10.o2.gs	Method	GENSCAN
Start	3441	End	4538
GI	none	Score	.88
Exons	3441..3460, 4229..4538		

Seq. No.	51390	Seq. ID	OJ991201_03.0421.C10
Gene No.	108925	Strand	-
Start	3441	End	4541
Name	OJ991201_03.0421.C10.o2.np	Method	AAT/NAP
Start	4234	End	4541
GI	7228441	Score	90
Exons	4234..4302, 4369..4541		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	51390	Seq. ID	OJ991201_03.0421.C10
Gene No.	108926	Strand	-
Start	4642	End	4799
Name	OJ991201_03.0421.C10.o1.gp	Method	AAT/GAP
Start	4642	End	4799
GI	LIB3477-003-P1-K1-E9	Score	147
Exons	4642..4735, 4777..4799		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108927	Strand	+
Start	11475	End	15031
Name	OJ991201_03.0421.C11.o3.np	Method	AAT/NAP
Start	8743	End	10168
GI	5852084	Score	71
Exons	8743..8763, 10063..10168		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108927	Strand	+
Start	11475	End	15031

Name	OJ991201_03.0421.C11.o3.gs	Method	GENSCAN
Start	11475	End	14576
GI	none	Score	.47
Exons	11475..11990, 12610..12760, 12998..13326, 14364..14576		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108927	Strand	+
Start	11475	End	15031
Name	OJ991201_03.0421.C11.o4.np	Method	AAT/NAP
Start	13128	End	15031
GI	4115375	Score	151
Exons	13128..13326, 15001..15031		
GI Descrip.	(AC005967) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108928	Strand	+
Start	22248	End	23695
Name	OJ991201_03.0421.C11.o6.np	Method	AAT/NAP
Start	22248	End	23695
GI	6907088	Score	1079
Exons	22248..22385, 22561..22798, 23298..23695		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108929	Strand	-
Start	2098	End	6298
Name	OJ991201_03.0421.C11.o2.np	Method	AAT/NAP
Start	2098	End	6298
GI	130582	Score	511
Exons	2098..2207, 5360..6298		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi 100342 pir S04273 hypothetical protein - common tobacco gi 20045 emb CAA32025 (X13777) ORF [Nicotiana tabacum]		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108929	Strand	-
Start	2098	End	6298
Name	OJ991201_03.0421.C11.o1.np	Method	AAT/NAP
Start	2210	End	4783
GI	7340881	Score	572
Exons	2210..2239, 2345..2451, 3882..4157, 4225..4342, 4435..4565, 4689..4783		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108930	Strand	-
Start	15284	End	20378
Name	OJ991201_03.0421.C11.o5.np	Method	AAT/NAP
Start	15284	End	20261
GI	7228446	Score	374
Exons	15284..15340, 19650..20261		
GI Descrip.	(AP001366) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative retroelement pol polyprotein. (AC006248) [Oryza sativa]		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
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Gene No.	108930	Strand	-
Start	15284	End	20378
Name	OJ991201_03.0421.C11.o4.gs	Method	GENSCAN
Start	15346	End	18454
GI	none	Score	.63
Exons	15346..15495, 15801..15953, 16150..16189, 16521..16642, 16762..16939, 17007..17038, 17292..17408, 18126..18209, 18383..18454		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108930	Strand	-
Start	15284	End	20378
Name	OJ991201_03.0421.C11.o5.gs	Method	GENSCAN
Start	19512	End	20378
GI	none	Score	.99
Exons	19512..20378		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108931	Strand	-
Start	20790	End	21281
Name	OJ991201_03.0421.C11.o6.gs	Method	GENSCAN
Start	20790	End	21281
GI	none	Score	.97
Exons	20790..21047, 21078..21281		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108932	Strand	-
Start	21366	End	21874
Name	OJ991201_03.0421.C11.o3.tm	Method	TBLASTX:Maize
Start	13164	End	13323
GI	none	Score	194
Exons	13164..13313, 13168..13323		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108932	Strand	-
Start	21366	End	21874
Name	OJ991201_03.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	19803	End	20130
GI	none	Score	167
Exons	19803..19880, 19827..20129, 19910..20089, 19938..20129, 19969..20130		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108932	Strand	-
Start	21366	End	21874
Name	OJ991201_03.0421.C11.o2.tm	Method	TBLASTX:Maize
Start	20136	End	20432
GI	none	Score	86
Exons	20136..20210, 20136..20207, 20177..20209, 20199..20378, 20202..20375, 20385..20432, 20385..20405		

Seq. No.	51391	Seq. ID	OJ991201_03.0421.C11
Gene No.	108932	Strand	-
Start	21366	End	21874
Name	OJ991201_03.0421.C11.o2.gp	Method	AAT/GAP
Start	21366	End	21874
GI	38782_1.R1084	Score	826

Exons 21366..21874
 GI Descrip. '6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108933	Strand	+
Start	774	End	2167
Name	OJ991201_03.0421.C12.o1.gs	Method	GENSCAN
Start	774	End	2167
GI	none	Score	.4
Exons	774..828, 1872..2167		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108934	Strand	+
Start	2258	End	9060
Name	OJ991201_03.0421.C12.o1.np	Method	AAT/NAP
Start	2258	End	9060
GI	5295971	Score	223
Exons	2258..2284, 3750..4172, 6140..6291, 8276..8400, 9017..9060		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108934	Strand	+
Start	2258	End	9060
Name	OJ991201_03.0421.C12.o2.np	Method	AAT/NAP
Start	4168	End	8969
GI	5042454	Score	266
Exons	4168..4226, 5983..6356, 8952..8969		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108935	Strand	+
Start	11215	End	16847
Name	OJ991201_03.0421.C12.o3.np	Method	AAT/NAP
Start	10421	End	15180
GI	5734587	Score	1766
Exons	10421..10471, 11678..11944, 12136..12342, 12773..13022, 13269..13485, 13611..13715, 14028..14300, 14421..14548, 14756..14875, 15096..15180		
GI Descrip.	(AJ245862) putative external rotenone-insensitive NADH dehydrogenase [Solanum tuberosum]		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108935	Strand	+
Start	11215	End	16847
Name	OJ991201_03.0421.C12.o3.gs	Method	GENSCAN
Start	11215	End	16847
GI	none	Score	.8
Exons	11215..11321, 11674..11944, 12136..12342, 12408..12474, 12920..13022, 13269..13485, 13611..13715, 14028..14154, 14756..14875, 15726..15775, 16674..16847		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108935	Strand	+
Start	11215	End	16847

Name	OJ991201_03.0421.C12.o1.gp	Method	AAT/GAP
Start	14006	End	14847
GI	uC-osrocyp037e06b1	Score	918
Exons	14006..14300, 14421..14548, 14756..14847		
GI Descrip.	'5734587/emb CAB52797.1 4.0e-53 (AJ245862) putative external rotenone-insensitive NADH dehydrogenase [Solanum tuberosum]'		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108936	Strand	+
Start	19251	End	19906
Name	OJ991201_03.0421.C12.o2.gp	Method	AAT/GAP
Start	19178	End	19621
GI	63609_1.R1084	Score	812
Exons	19178..19621		
GI Descrip.	'3449320/dbj AB016879.1 AB016879 5.0e-10 Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MRB17, complete sequence'		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108936	Strand	+
Start	19251	End	19906
Name	OJ991201_03.0421.C12.o4.gs	Method	GENSCAN
Start	19251	End	19883
GI	none	Score	.87
Exons	19251..19883		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108936	Strand	+
Start	19251	End	19906
Name	OJ991201_03.0421.C12.o4.np	Method	AAT/NAP
Start	19278	End	19906
GI	3056595	Score	199
Exons	19278..19441, 19468..19906		
GI Descrip.	(AC004255) T1F9.16 [Arabidopsis thaliana]		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108937	Strand	-
Start	2911	End	8899
Name	OJ991201_03.0421.C12.o2.gs	Method	GENSCAN
Start	2911	End	8899
GI	none	Score	.48
Exons	2911..3096, 3795..4183, 4396..4424, 4706..4960, 5666..5780, 5930..6017, 6172..6438, 8338..8479, 8820..8899		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108937	Strand	-
Start	2911	End	8899
Name	OJ991201_03.0421.C12.o2.tm	Method	TBLASTX:Maize
Start	3758	End	4040
GI	none	Score	211
Exons	3758..4033, 3759..4040		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108938	Strand	
Start	11638	End	15183
Name	OJ991201_03.0421.C12.o2.ts	Method	TBLASTX:Soybean
Start	11638	End	13401
GI	none	Score	336

Exons 11638..11943, 11639..11944, 11759..11944, 12136..12219,
12144..12212, 12226..12342, 12276..12344, 12770..12859,
12772..12855, 12858..13022, 12859..13023, 12868..13023,
13266..13400, 13270..13401

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108938	Strand	
Start	11638	End	15183
Name	OJ991201_03.0421.C12.o2.tc	Method	TBLASTX:Cress
Start	11654	End	11947
GI	none	Score	49
Exons	11654..11728, 11668..11712, 11735..11944, 11737..11943, 11762..11947		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108938	Strand	
Start	11638	End	15183
Name	OJ991201_03.0421.C12.o1.tw	Method	TBLASTX:Wheat
Start	11711	End	11961
GI	none	Score	273
Exons	11711..11944, 11752..11961		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108938	Strand	
Start	11638	End	15183
Name	OJ991201_03.0421.C12.o3.tc	Method	TBLASTX:Cress
Start	12136	End	13017
GI	none	Score	221
Exons	12136..12342, 12159..12221, 12276..12344, 12770..12865, 12772..12903, 12852..12992, 12859..13017, 12871..12984, 12873..12989		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108938	Strand	
Start	11638	End	15183
Name	OJ991201_03.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	12770	End	15183
GI	none	Score	119
Exons	12770..12859, 12770..12820, 12772..12888, 12772..12903, 12849..12986, 12859..13023, 12861..12986, 13266..13481, 13270..13485, 13270..13488, 13608..13715, 13608..13715, 13609..13716, 13613..13717, 13613..13717, 14028..14279, 14033..14305, 14034..14306, 14415..14504, 14418..14555, 14420..14518, 14513..14560, 14754..14789, 14790..14873, 14793..14828, 14822..14875, 15084..15179, 15085..15183		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108938	Strand	
Start	11638	End	15183
Name	OJ991201_03.0421.C12.o1.tc	Method	TBLASTX:Cress
Start	13270	End	14144
GI	none	Score	136
Exons	13270..13401, 13270..13386, 13395..13481, 13399..13485, 13608..13715, 13608..13709, 13619..13711, 13621..13716, 13622..13717, 14034..14144, 14045..14143		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
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Gene No.	108938	Strand	
Start	11638	End	15183
Name	OJ991201_03.0421.C12.o1.ts	Method	TBLASTX:Soybean
Start	14034	End	14875
GI	none	Score	285
Exons	14034..14306, 14040..14303, 14045..14305, 14418..14555, 14418..14495, 14420..14518, 14754..14873, 14754..14873, 14756..14875		

Seq. No.	51392	Seq. ID	OJ991201_03.0421.C12
Gene No.	108938	Strand	
Start	11638	End	15183
Name	OJ991201_03.0421.C12.o4.tc	Method	TBLASTX:Cress
Start	14222	End	15183
GI	none	Score	88
Exons	14222..14305, 14226..14306, 14418..14498, 14420..14497, 14523..14552, 14741..14902, 14754..14906, 15084..15182, 15085..15183, 15086..15175, 15093..15179		

Seq. No.	51393	Seq. ID	OJ991201_03.0421.C13
Gene No.	108939	Strand	+
Start	1	End	915
Name	OJ991201_03.0421.C13.o1.np	Method	AAT/NAP
Start	1	End	912
GI	3056595	Score	492
Exons	1..912		
GI Descrip.	(AC004255) T1F9.16 [Arabidopsis thaliana]		

Seq. No.	51393	Seq. ID	OJ991201_03.0421.C13
Gene No.	108939	Strand	+
Start	1	End	915
Name	OJ991201_03.0421.C13.o1.gs	Method	GENSCAN
Start	71	End	915
GI	none	Score	.82
Exons	71..271, 337..915		

Seq. No.	51393	Seq. ID	OJ991201_03.0421.C13
Gene No.	108940	Strand	+
Start	6053	End	9525
Name	OJ991201_03.0421.C13.o2.np	Method	AAT/NAP
Start	6053	End	9298
GI	100210	Score	84
Exons	6053..6243, 8837..8994, 9258..9298		
GI Descrip.	extensin precursor (clone Tom L-4) - tomato gi 170444 (M76671) extensin (class II) [Lycopersicon esculentum]		

Seq. No.	51393	Seq. ID	OJ991201_03.0421.C13
Gene No.	108940	Strand	+
Start	6053	End	9525
Name	OJ991201_03.0421.C13.o4.gs	Method	GENSCAN
Start	8928	End	9383
GI	none	Score	.78
Exons	8928..9383		

Seq. No.	51393	Seq. ID	OJ991201_03.0421.C13
Gene No.	108940	Strand	+
Start	6053	End	9525

Name	OJ991201_03.0421.C13.o1.gp	Method	AAT/GAP
Start	8956	End	9525
GI	22877_1.R1084	Score	1100
Exons	8956..9525		
GI Descrip.	'3449320/dbj AB016879.1 AB016879 5.0e-10 Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MRB17, complete sequence'		

Seq. No.	51393	Seq. ID	OJ991201_03.0421.C13
Gene No.	108941	Strand	-
Start	2773	End	4067
Name	OJ991201_03.0421.C13.o2.gs	Method	GENSCAN
Start	2773	End	4067
GI	none	Score	.93
Exons	2773..3188, 3206..4067		

Seq. No.	51393	Seq. ID	OJ991201_03.0421.C13
Gene No.	108942	Strand	-
Start	6070	End	7017
Name	OJ991201_03.0421.C13.o1.tm	Method	TBLASTX:Maize
Start	2	End	247
GI	none	Score	132
Exons	2..97, 3..89, 91..129, 95..139, 152..247, 154..213		

Seq. No.	51393	Seq. ID	OJ991201_03.0421.C13
Gene No.	108942	Strand	-
Start	6070	End	7017
Name	OJ991201_03.0421.C13.o2.tm	Method	TBLASTX:Maize
Start	2872	End	3118
GI	none	Score	119
Exons	2872..3015, 2872..3057, 2879..3073, 2894..3073, 2898..3074, 2898..3074, 3088..3117, 3089..3118		

Seq. No.	51393	Seq. ID	OJ991201_03.0421.C13
Gene No.	108942	Strand	-
Start	6070	End	7017
Name	OJ991201_03.0421.C13.o3.gs	Method	GENSCAN
Start	6070	End	7017
GI	none	Score	.92
Exons	6070..6435, 6973..7017		

Seq. No.	51394	Seq. ID	OJ991201_03.0421.C14
Gene No.	108943	Strand	+
Start	2462	End	3522
Name	OJ991201_03.0421.C14.o2.gs	Method	GENSCAN
Start	2462	End	3522
GI	none	Score	.48
Exons	2462..2595, 3043..3208, 3367..3522		

Seq. No.	51394	Seq. ID	OJ991201_03.0421.C14
Gene No.	108944	Strand	+
Start	4071	End	4748
Name	OJ991201_03.0421.C14.o1.gp	Method	AAT/GAP
Start	4071	End	4748
GI	2661_1.R1084	Score	1287
Exons	4071..4748		
GI Descrip.	'4415940/gb AAD20170 6.0e-21 (AC006418) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	51394	Seq. ID	OJ991201_03.0421.C14
Gene No.	108945	Strand	-
Start	1	End	729
Name	OJ991201_03.0421.C14.o1.np	Method	AAT/NAP
Start	1	End	413
GI	7485719	Score	307
Exons	1..413		
GI Descrip.	hypothetical protein F18E5.40 - Arabidopsis thaliana gi 3080386 emb CAA18706.1 (AL022603) hypothetical protein [Arabidopsis thaliana] gi 3402761 emb CAA20207.1 (AL031187) hypothetical protein [Arabidopsis thaliana] gi 7268939 emb CAB81249.1 (AL161555) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51394	Seq. ID	OJ991201_03.0421.C14
Gene No.	108945	Strand	-
Start	1	End	729
Name	OJ991201_03.0421.C14.o1.gs	Method	GENSCAN
Start	35	End	729
GI	none	Score	.82
Exons	35..551, 638..729		

Seq. No.	51394	Seq. ID	OJ991201_03.0421.C14
Gene No.	108946	Strand	-
Start	4285	End	5820
Name	OJ991201_03.0421.C14.o1.tm	Method	TBLASTX:Maize
Start	4270	End	4620
GI	none	Score	190
Exons	4270..4587, 4291..4587, 4570..4620, 4588..4617		

Seq. No.	51394	Seq. ID	OJ991201_03.0421.C14
Gene No.	108946	Strand	-
Start	4285	End	5820
Name	OJ991201_03.0421.C14.o2.np	Method	AAT/NAP
Start	4285	End	4671
GI	7486809	Score	301
Exons	4285..4671		
GI Descrip.	hypothetical protein M4I22.90 - Arabidopsis thaliana gi 3269289 emb CAA19722.1 (AL030978) putative protein [Arabidopsis thaliana] gi 7269581 emb CAB79583.1 (AL161566) putative protein [Arabidopsis thaliana]		

Seq. No.	51394	Seq. ID	OJ991201_03.0421.C14
Gene No.	108946	Strand	-
Start	4285	End	5820
Name	OJ991201_03.0421.C14.o3.gs	Method	GENSCAN
Start	4285	End	5820
GI	none	Score	.86
Exons	4285..4722, 5731..5820		

Seq. No.	51394	Seq. ID	OJ991201_03.0421.C14
Gene No.	108946	Strand	-
Start	4285	End	5820
Name	OJ991201_03.0421.C14.o1.tw	Method	TBLASTX:Wheat
Start	4291	End	4518
GI	none	Score	165

Exons 4291..4515, 4291..4518

Seq. No.	51394	Seq. ID	OJ991201_03.0421.C14
Gene No.	108946	Strand	-
Start	4285	End	5820
Name	OJ991201_03.0421.C14.o1.ts	Method	TBLASTX:Soybean
Start	4309	End	4617
GI	none	Score	62
Exons	4309..4428, 4483..4617, 4510..4617		

Seq. No.	51394	Seq. ID	OJ991201_03.0421.C14
Gene No.	108946	Strand	-
Start	4285	End	5820
Name	OJ991201_03.0421.C14.o1.tc	Method	TBLASTX:Cress
Start	4375	End	4617
GI	none	Score	145
Exons	4375..4428, 4483..4617		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108947	Strand	+
Start	6078	End	9258
Name	OJ991201_03.0421.C15.o2.gs	Method	GENSCAN
Start	6078	End	9076
GI	none	Score	.64
Exons	6078..6521, 8553..8780, 8894..9076		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108947	Strand	+
Start	6078	End	9258
Name	OJ991201_03.0421.C15.o2.gp	Method	AAT/GAP
Start	7136	End	9258
GI	4464_1.R1084	Score	1573
Exons	7136..7329, 8439..8477, 8553..8780, 8894..9258		
GI Descrip.	'400989/sp Q02764 RK24_TOBAC 2.0e-54 50S RIBOSOMAL PROTEIN L24, CHLOROPLAST PRECURSOR (CL24) >gi_322771_pir_A45113 ribosomal protein L24 precursor - common tobacco >gi_170273 (M87838) ribosomal protein L24 [Nicotiana tabacum] >gi_170324 (M87839) ribosomal protein L24 [Nicotiana tabacum]'		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108947	Strand	+
Start	6078	End	9258
Name	OJ991201_03.0421.C15.o2.np	Method	AAT/NAP
Start	7770	End	9098
GI	132819	Score	452
Exons	7770..7876, 8507..8774, 8888..9098		
GI Descrip.	50S RIBOSOMAL PROTEIN L24, CHLOROPLAST PRECURSOR (CL24) gi 71307 pir R5PM24 ribosomal protein L24 precursor, chloroplast - garden pea gi 20873 emb CAA32185 (X14020) CL24 ribosomal preprotein (AA -39 to 155) [Pisum sativum]		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108948	Strand	-
Start	1018	End	4861
Name	OJ991201_03.0421.C15.o1.np	Method	AAT/NAP
Start	967	End	4861
GI	112564	Score	818

Exons 967..1204, 1698..1806, 1898..2029, 2238..2461, 2554..2669, 2767..3018, 3138..3229, 3333..3387, 3463..3561, 4256..4312, 4397..4468, 4555..4616, 4779..4861

GI Descrip. beta-glucosidase (EC 3.2.1.21) - cassava gi|249262|bbs|101989 (S35175) linamarase=beta-glucosidase [Manihot esculenta=cassava, Cranz, Peptide, 531 aa] [Manihot esculenta]

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108948	Strand	-
Start	1018	End	4861
Name	OJ991201_03.0421.C15.o2.tm	Method	TBLASTX:Maize
Start	994	End	4614
GI	none	Score	90
Exons	994..1089, 1096..1227, 1115..1201, 1891..2025, 1893..2018, 2234..2257, 2305..2460, 2324..2461, 2553..2651, 2553..2672, 2764..2856, 2825..2857, 2884..3021, 2885..3004, 2887..3021, 3141..3245, 3157..3231, 3328..3474, 3349..3414, 3487..3588, 3488..3562, 4256..4315, 4394..4474, 4401..4472, 4552..4614, 4553..4612		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108948	Strand	-
Start	1018	End	4861
Name	OJ991201_03.0421.C15.o1.gs	Method	GENSCAN
Start	1018	End	4293
GI	none	Score	.63
Exons	1018..1204, 1698..1806, 2238..2461, 2554..2669, 2767..3022, 4256..4293		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108948	Strand	-
Start	1018	End	4861
Name	OJ991201_03.0421.C15.o1.ts	Method	TBLASTX:Soybean
Start	1024	End	4617
GI	none	Score	92
Exons	1024..1203, 1055..1198, 1697..1807, 1893..2012, 2243..2263, 2311..2460, 2553..2672, 2767..3021, 2837..3004, 3141..3242, 3160..3231, 3328..3399, 3487..3570, 4256..4315, 4407..4472, 4412..4474, 4555..4617		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108948	Strand	-
Start	1018	End	4861
Name	OJ991201_03.0421.C15.o1.tc	Method	TBLASTX:Cress
Start	1093	End	4620
GI	none	Score	121
Exons	1093..1206, 1896..1973, 2299..2460, 2553..2672, 2767..3021, 2813..3022, 3141..3242, 3328..3387, 3487..3588, 4552..4620		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108948	Strand	-
Start	1018	End	4861
Name	OJ991201_03.0421.C15.o1.tw	Method	TBLASTX:Wheat
Start	2305	End	3567
GI	none	Score	43
Exons	2305..2460, 2553..2651, 2779..2844, 2779..3021, 2885..3004, 3138..3227, 3141..3242, 3145..3237, 3340..3414, 3487..3567		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108948	Strand	-
Start	1018	End	4861
Name	OJ991201_03.0421.C15.o1.gp	Method	AAT/GAP
Start	2647	End	3093
GI	1036934	Score	536
Exons	2647..2669, 2767..3093		
GI Descrip.	3449320/dbj AB016879.1 AB016879 5.0e-10 Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MRB17, complete sequence		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108949	Strand	
Start	7204	End	9115
Name	OJ991201_03.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	7204	End	9115
GI	none	Score	95
Exons	7204..7284, 7206..7283, 7262..7330, 7263..7331, 8438..8467, 8445..8474, 8523..8783, 8536..8658, 8546..8779, 8894..9058, 8894..9115		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108949	Strand	
Start	7204	End	9115
Name	OJ991201_03.0421.C15.o2.tc	Method	TBLASTX:Cress
Start	8539	End	9043
GI	none	Score	86
Exons	8539..8634, 8542..8757, 8550..8759, 8552..8758, 8891..9043, 8891..9043		

Seq. No.	51395	Seq. ID	OJ991201_03.0421.C15
Gene No.	108949	Strand	
Start	7204	End	9115
Name	OJ991201_03.0421.C15.o2.ts	Method	TBLASTX:Soybean
Start	8540	End	9052
GI	none	Score	144
Exons	8540..8746, 8542..8643, 8546..8758, 8547..8759, 8886..9044, 8891..9052, 8893..9042		

Seq. No.	51396	Seq. ID	OJ991201_02.0421.C3
Gene No.	108950	Strand	-
Start	1015	End	1655
Name	OJ991201_02.0421.C3.o1.gs	Method	GENSCAN
Start	1015	End	1655
GI	none	Score	.94
Exons	1015..1031, 1322..1655		

Seq. No.	51396	Seq. ID	OJ991201_02.0421.C3
Gene No.	108950	Strand	-
Start	1015	End	1655
Name	OJ991201_02.0421.C3.o1.np	Method	AAT/NAP
Start	1308	End	1652
GI	4895197	Score	242
Exons	1308..1652		
GI Descrip.	(AC007661) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51396	Seq. ID	OJ991201_02.0421.C3
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Gene No.	108951	Strand	-
Start	2626	End	2732
Name	OJ991201_02.0421.C3.o1.tc	Method	TBLASTX:Cress
Start	1323	End	1589
GI	none	Score	128
Exons	1323..1454, 1324..1449, 1470..1589, 1477..1560		

Seq. No.	51396	Seq. ID	OJ991201_02.0421.C3
Gene No.	108951	Strand	-
Start	2626	End	2732
Name	OJ991201_02.0421.C3.o1.tw	Method	TBLASTX:Wheat
Start	1323	End	1589
GI	none	Score	180
Exons	1323..1520, 1324..1452, 1416..1454, 1455..1589, 1459..1560		

Seq. No.	51396	Seq. ID	OJ991201_02.0421.C3
Gene No.	108951	Strand	-
Start	2626	End	2732
Name	OJ991201_02.0421.C3.o1.tm	Method	TBLASTX:Maize
Start	1323	End	1586
GI	none	Score	348
Exons	1323..1586, 1324..1566		

Seq. No.	51396	Seq. ID	OJ991201_02.0421.C3
Gene No.	108951	Strand	-
Start	2626	End	2732
Name	OJ991201_02.0421.C3.o1.ts	Method	TBLASTX:Soybean
Start	1323	End	1589
GI	none	Score	132
Exons	1323..1454, 1324..1449, 1455..1568, 1569..1589		

Seq. No.	51396	Seq. ID	OJ991201_02.0421.C3
Gene No.	108951	Strand	-
Start	2626	End	2732
Name	OJ991201_02.0421.C3.o2.gs	Method	GENSCAN
Start	2626	End	2732
GI	none	Score	.94
Exons	2626..2732		

Seq. No.	51397	Seq. ID	OJ991201_02.0421.C4
Gene No.	108952	Strand	-
Start	1	End	22021
Name	OJ991201_02.0421.C4.o2.np	Method	AAT/NAP
Start	1	End	21973
GI	6649242	Score	208
Exons	1..92, 3394..3622, 4752..4826, 10074..10152, 11130..11261, 11714..11930, 12375..12610, 20916..21333, 21644..21973		
GI Descrip.	(AF201422) splicing coactivator subunit SRm300 [Homo sapiens]		

Seq. No.	51397	Seq. ID	OJ991201_02.0421.C4
Gene No.	108952	Strand	-
Start	1	End	22021
Name	OJ991201_02.0421.C4.o1.np	Method	AAT/NAP
Start	6566	End	7376
GI	5921832	Score	226
Exons	6566..6766, 6800..7006, 7275..7376		
GI Descrip.	COPPER TRANSPORTER 1 gi 1082054 emb CAA90018 (Z49859) copper		

transporter protein [Arabidopsis thaliana]

Seq. No.	51397	Seq. ID	OJ991201_02.0421.C4
Gene No.	108952	Strand	-
Start	1	End	22021
Name	OJ991201_02.0421.C4.o3.gs	Method	GENSCAN
Start	10893	End	18227
GI	none	Score	.68
Exons	10893..11703, 11769..11884, 11989..12010, 12420..12579, 13093..13345, 13651..13857, 14129..14192, 14280..14336, 14679..14777, 14914..14946, 18103..18227		

Seq. No.	51397	Seq. ID	OJ991201_02.0421.C4
Gene No.	108952	Strand	-
Start	1	End	22021
Name	OJ991201_02.0421.C4.o4.gs	Method	GENSCAN
Start	20899	End	22021
GI	none	Score	.98
Exons	20899..21345, 21422..22021		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108953	Strand	+
Start	910	End	8816
Name	OJ991201_02.0421.C5.o1.gs	Method	GENSCAN
Start	910	End	8816
GI	none	Score	.41
Exons	910..986, 2582..2678, 3266..3562, 8634..8816		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108954	Strand	+
Start	15416	End	16124
Name	OJ991201_02.0421.C5.o1.gp	Method	AAT/GAP
Start	15416	End	16124
GI	none	Score	1363
Exons	15416..16124		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108955	Strand	+
Start	17315	End	18956
Name	OJ991201_02.0421.C5.o4.gs	Method	GENSCAN
Start	17315	End	18956
GI	none	Score	.75
Exons	17315..17389, 17469..17661, 18038..18167, 18893..18956		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108955	Strand	+
Start	17315	End	18956
Name	OJ991201_02.0421.C5.o2.np	Method	AAT/NAP
Start	17948	End	18824
GI	7242910	Score	70
Exons	17948..18071, 18539..18668, 18737..18824		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108956	Strand	+
Start	19062	End	19210
Name	OJ991201_02.0421.C5.o2.gp	Method	AAT/GAP

Start	19062	End	19210
GI	uC-osflcyp104c12a1	Score	198
Exons	19062..19210		
GI Descrip.	'5852170/emb AL117265.1 OST17804 3.0e-29 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108957	Strand	+
Start	22875	End	26301
Name	OJ991201_02.0421.C5.o6.gs	Method	GENSCAN
Start	22875	End	26301
GI	none	Score	.58
Exons	22875..22901, 24615..24955, 25272..26301		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108957	Strand	+
Start	22875	End	26301
Name	OJ991201_02.0421.C5.o3.gp	Method	AAT/GAP
Start	25342	End	25656
GI	95327_1.R1084	Score	565
Exons	25342..25656		
GI Descrip.	'1707032 2.0e-15 (U80445) coded for by C. elegans cDNA yk13g5.3; coded for by C. elegans cDNA yk21g6.3; coded for by C. elegans cDNA CEMSE18F; coded for by C. elegans cDNA yk126b1.3; coded for by C. elegans cDNA yk65h8.3; coded for by C. elegans cDNA yk65h8'		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108958	Strand	-
Start	10439	End	14108
Name	OJ991201_02.0421.C5.o1.np	Method	AAT/NAP
Start	10439	End	14108
GI	4544450	Score	652
Exons	10439..10580, 11356..12375, 14054..14108		
GI Descrip.	(AC006592) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108958	Strand	-
Start	10439	End	14108
Name	OJ991201_02.0421.C5.o2.gs	Method	GENSCAN
Start	11352	End	12989
GI	none	Score	.97
Exons	11352..12989		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108959	Strand	-
Start	15241	End	16287
Name	OJ991201_02.0421.C5.o3.gs	Method	GENSCAN
Start	15241	End	16287
GI	none	Score	.78
Exons	15241..15362, 15527..15644, 15761..15919, 15974..16133, 16217..16287		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108960	Strand	-
Start	20161	End	21163
Name	OJ991201_02.0421.C5.o5.gs	Method	GENSCAN

Start	20161	End	21163
GI	none	Score	.62
Exons	20161..20436, 20515..20717, 21013..21163		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o3.ts	Method	TBLASTX:Soybean
Start	3257	End	3532
GI	none	Score	104
Exons	3257..3385, 3263..3484, 3264..3389, 3411..3479, 3488..3532		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o4.tm	Method	TBLASTX:Maize
Start	3299	End	3469
GI	none	Score	96
Exons	3299..3319, 3313..3390, 3314..3391, 3314..3469, 3318..3464		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o3.tc	Method	TBLASTX:Cress
Start	11361	End	11687
GI	none	Score	119
Exons	11361..11687, 11362..11667		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o2.tm	Method	TBLASTX:Maize
Start	11373	End	12722
GI	none	Score	194
Exons	11373..11969, 11374..11970, 11760..11981, 11769..11969, 11803..11961, 12033..12116, 12051..12284, 12111..12278, 12210..12374, 12261..12377, 12306..12389, 12306..12464, 12399..12650, 12408..12722		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o2.ts	Method	TBLASTX:Soybean
Start	11373	End	11792
GI	none	Score	109
Exons	11373..11792, 11374..11640, 11388..11762		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	11667	End	12731
GI	none	Score	71
Exons	11667..11780, 11670..11969, 11701..11955, 11814..11969, 12015..12143, 12060..12281, 12384..12731		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
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Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o2.tc	Method	TBLASTX:Cress
Start	11688	End	12767
GI	none	Score	60
Exons	11688..11801, 11814..11969, 12018..12191, 12018..12389, 12045..12119, 12111..12281, 12129..12251, 12178..12372, 12198..12461, 12207..12371, 12290..12331, 12300..12467, 12306..12743, 12366..12767		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	15501	End	16113
GI	none	Score	119
Exons	15501..15644, 15557..15646, 15557..15643, 15758..15928, 15760..15939, 16054..16113		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	15546	End	16308
GI	none	Score	145
Exons	15546..15644, 15548..15646, 15548..15643, 15760..15939, 15761..15943, 16043..16066, 16048..16143, 16049..16132, 16222..16308		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o2.tw	Method	TBLASTX:Wheat
Start	15548	End	15826
GI	none	Score	137
Exons	15548..15643, 15549..15704, 15558..15644, 15760..15825, 15761..15826		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o1.tc	Method	TBLASTX:Cress
Start	15549	End	15966
GI	none	Score	111
Exons	15549..15641, 15557..15643, 15558..15644, 15622..15648, 15758..15928, 15760..15939, 15904..15966		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o4.gp	Method	AAT/GAP
Start	27278	End	28231
GI	2312823	Score	769
Exons	27278..27329, 27552..27658, 27761..27829, 27913..27975, 28064..28231		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
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Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o7.gs	Method	GENSCAN
Start	27513	End	38362
GI	none	Score	.51
Exons	27513..27658, 27761..27829, 28064..28329, 29194..29354, 29558..29651, 30272..30431, 31204..31292, 31717..31765, 33366..33455, 35754..35829, 37632..37711, 38200..38362		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o3.np	Method	AAT/NAP
Start	36791	End	38936
GI	4335720	Score	354
Exons	36791..37044, 37474..38346, 38900..38936		
GI Descrip.	(AC006248) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o3.tm	Method	TBLASTX:Maize
Start	37423	End	38116
GI	none	Score	71
Exons	37423..37566, 37490..37564, 37560..37625, 37564..37626, 37653..37961, 37739..37774, 37801..37959, 37859..38116, 37949..38038		

Seq. No.	51398	Seq. ID	OJ991201_02.0421.C5
Gene No.	108961	Strand	-
Start	27513	End	38936
Name	OJ991201_02.0421.C5.o3.tw	Method	TBLASTX:Wheat
Start	37480	End	37817
GI	none	Score	142
Exons	37480..37563, 37650..37817		

Seq. No.	51399	Seq. ID	OJ991201_02.0421.C6
Gene No.	108962	Strand	-
Start	6829	End	15201
Name	OJ991201_02.0421.C6.o3.gs	Method	GENSCAN
Start	6829	End	14564
GI	none	Score	.55
Exons	6829..6971, 9553..9765, 9861..10029, 10159..10227, 10337..10482, 10577..10655, 11131..11208, 12555..12716, 12985..13614, 13778..13914, 14097..14280, 14427..14564		

Seq. No.	51399	Seq. ID	OJ991201_02.0421.C6
Gene No.	108962	Strand	-
Start	6829	End	15201
Name	OJ991201_02.0421.C6.o1.gp	Method	AAT/GAP
Start	9358	End	10038
GI	34607_1.R1084	Score	1056
Exons	9358..9765, 9861..10038		
GI Descrip.	'5306263/gb AAD41995.1 AC006233_6 2.0e-20 (AC006233) unknown protein [Arabidopsis thaliana]'		

Seq. No.	51399	Seq. ID	OJ991201_02.0421.C6
Gene No.	108962	Strand	-
Start	6829	End	15201
Name	OJ991201_02.0421.C6.o2.tm	Method	TBLASTX:Maize
Start	9378	End	9916
GI	none	Score	44
Exons	9378..9425, 9482..9736, 9503..9769, 9504..9779, 9857..9916, 9872..9901		

Seq. No.	51399	Seq. ID	OJ991201_02.0421.C6
Gene No.	108962	Strand	-
Start	6829	End	15201
Name	OJ991201_02.0421.C6.o1.np	Method	AAT/NAP
Start	9518	End	15201
GI	5306263	Score	993
Exons	9518..9750, 9861..10029, 10337..10455, 10571..10655, 11131..11208, 12555..12721, 12956..13305, 13399..13683, 15094..15201		
GI Descrip.	(AC006233) unknown protein [Arabidopsis thaliana]		

Seq. No.	51399	Seq. ID	OJ991201_02.0421.C6
Gene No.	108962	Strand	-
Start	6829	End	15201
Name	OJ991201_02.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	9551	End	10665
GI	none	Score	50
Exons	9551..9691, 9860..9916, 9946..10035, 9947..10030, 10166..10219, 10337..10501, 10338..10490, 10560..10658, 10576..10659, 10578..10658, 10579..10665		

Seq. No.	51399	Seq. ID	OJ991201_02.0421.C6
Gene No.	108962	Strand	-
Start	6829	End	15201
Name	OJ991201_02.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	9901	End	10631
GI	none	Score	139
Exons	9901..9924, 9922..10029, 9932..10030, 9943..10035, 10159..10224, 10160..10216, 10336..10488, 10337..10501, 10338..10490, 10560..10631, 10577..10630, 10578..10631		

Seq. No.	51399	Seq. ID	OJ991201_02.0421.C6
Gene No.	108962	Strand	-
Start	6829	End	15201
Name	OJ991201_02.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	9932	End	13707
GI	none	Score	113
Exons	9932..10015, 9934..10029, 9935..10030, 9952..10035, 10151..10228, 10159..10227, 10318..10488, 10337..10489, 10337..10501, 10560..10658, 10576..10734, 10577..10657, 10578..10658, 11128..11214, 11129..11209, 12552..12716, 12553..12717, 12555..12716, 12960..13190, 12974..13159, 12978..13205, 12985..13194, 13253..13435, 13255..13464, 13274..13435, 13622..13687, 13625..13687, 13657..13707		

Seq. No.	51399	Seq. ID	OJ991201_02.0421.C6
Gene No.	108962	Strand	-
Start	6829	End	15201

Name	OJ991201_02.0421.C6.o2.gp	Method	AAT/GAP
Start	10441	End	13045
GI	3766754	Score	698
Exons	10441..10482, 10577..10655, 11131..11208, 12555..12716, 12985..13045		
GI Descrip.	5306263/gb AAD41995.1 AC006233_6 2.0e-23 (AC006233) unknown protein [Arabidopsis thaliana]		

Seq. No.	51399	Seq. ID	OJ991201_02.0421.C6
Gene No.	108962	Strand	-
Start	6829	End	15201
Name	OJ991201_02.0421.C6.o2.ts	Method	TBLASTX:Soybean
Start	11128	End	13194
GI	none	Score	88
Exons	11128..11214, 11129..11209, 12555..12716, 12555..12716, 12974..13141, 12988..13050, 13114..13194		

Seq. No.	51399	Seq. ID	OJ991201_02.0421.C6
Gene No.	108962	Strand	-
Start	6829	End	15201
Name	OJ991201_02.0421.C6.o3.gp	Method	AAT/GAP
Start	13691	End	14356
GI	uC-osflcyp014e02b1	Score	832
Exons	13691..13856, 14097..14356		
GI Descrip.	'5306263/gb AAD41995.1 AC006233_6 2.0e-23 (AC006233) unknown protein [Arabidopsis thaliana]'		

Seq. No.	51400	Seq. ID	OJ990821_51.0419.C3
Gene No.	108963	Strand	-
Start	360	End	923
Name	OJ990821_51.0419.C3.o1.gs	Method	GENSCAN
Start	360	End	923
GI	none	Score	.96
Exons	360..530, 843..923		

Seq. No.	51401	Seq. ID	OJ990821_51.0419.C9
Gene No.	108964	Strand	+
Start	534	End	628
Name	OJ990821_51.0419.C9.o1.gs	Method	GENSCAN
Start	534	End	628
GI	none	Score	.79
Exons	534..628		

Seq. No.	51401	Seq. ID	OJ990821_51.0419.C9
Gene No.	108965	Strand	+
Start	1023	End	1178
Name	OJ990821_51.0419.C9.o1.np	Method	AAT/NAP
Start	1023	End	1178
GI	7444442	Score	134
Exons	1023..1178		
GI Descrip.	gag/pol polyprotein - maize retrotransposon Hopscotch gi 531389 gb AAA57005.1 (U12626) copia-like retrotransposon Hopscotch polyprotein [Zea mays]		

Seq. No.	51402	Seq. ID	OJ990821_51.0419.C15
Gene No.	108966	Strand	+
Start	219	End	406

Name OJ990821_51.0419.C15.o1.gs
 Start 219
 GI none
 Exons 219..406

Method GENSCAN
 End 406
 Score .89

Seq. No. 51403
 Gene No. 108967
 Start 942
 Name OJ990821_51.0419.C20.o1.gs
 Start 942
 GI none
 Exons 942..1120

Seq. ID OJ990821_51.0419.C20
 Strand -
 End 1345
 Method GENSCAN
 End 1120
 Score .94

Seq. No. 51403
 Gene No. 108967
 Start 942
 Name OJ990821_51.0419.C20.o1.np
 Start 983
 GI 2495073
 Exons 983..1150, 1318..1345

Seq. ID OJ990821_51.0419.C20
 Strand -
 End 1345
 Method AAT/NAP
 End 1345
 Score 65

GI Descrip. CELL SURFACE GLYCOPROTEIN EMR1 PRECURSOR (EMR1 HORMONE RECEPTOR)
 (CELL SURFACE GLYCOPROTEIN F4/80) gi|1223769|emb|CAA63720.1|
 (X93328) cell surface glycoprotein [Mus musculus]
 gi|2078504|gb|AAC53184.1| (U66888) Emr1 [Mus musculus]

Seq. No. 51404
 Gene No. 108968
 Start 1
 Name OJ990821_51.0419.C22.o1.np
 Start 1
 GI 6689616
 Exons 1..29, 145..663, 922..945
 GI Descrip. (AJ012301) proline-rich protein [Zea mays]

Seq. ID OJ990821_51.0419.C22
 Strand +
 End 945
 Method AAT/NAP
 End 945
 Score 517

Seq. No. 51404
 Gene No. 108968
 Start 1
 Name OJ990821_51.0419.C22.o1.gs
 Start 5
 GI none
 Exons 5..29, 145..758

Seq. ID OJ990821_51.0419.C22
 Strand +
 End 945
 Method GENSCAN
 End 758
 Score .99

Seq. No. 51404
 Gene No. 108969
 Start 438
 Name OJ990821_51.0419.C22.o1.tw
 Start 1
 GI none
 Exons 1..27, 2..28, 112..171, 150..296, 151..198, 152..289, 287..349, 288..362, 292..378

Seq. ID OJ990821_51.0419.C22
 Strand -
 End 853
 Method TBLASTX:Wheat
 End 378
 Score 39

Seq. No. 51404
 Gene No. 108969
 Start 438
 Name OJ990821_51.0419.C22.o1.tm
 Start 2
 GI none

Seq. ID OJ990821_51.0419.C22
 Strand -
 End 853
 Method TBLASTX:Maize
 End 574
 Score 35

Exons 2..28, 129..341, 146..340, 338..448, 339..449, 527..544,
548..574

Seq. No.	51404	Seq. ID	OJ990821_51.0419.C22
Gene No.	108969	Strand	-
Start	438	End	853
Name	OJ990821_51.0419.C22.o1.gp	Method	AAT/GAP
Start	438	End	853
GI	none	Score	760
Exons	438..853		

Seq. No.	51405	Seq. ID	OJ990821_51.0419.C23
Gene No.	108970	Strand	-
Start	720	End	936
Name	OJ990821_51.0419.C23.o1.gs	Method	GENSCAN
Start	720	End	936
GI	none	Score	.92
Exons	720..936		

Seq. No.	51406	Seq. ID	OJ990821_51.0419.C24
Gene No.	108971	Strand	-
Start	198	End	291
Name	OJ990821_51.0419.C24.o1.gs	Method	GENSCAN
Start	198	End	291
GI	none	Score	.43
Exons	198..291		

Seq. No.	51407	Seq. ID	OJ990821_51.0419.C25
Gene No.	108972	Strand	+
Start	64	End	378
Name	OJ990821_51.0419.C25.o1.gs	Method	GENSCAN
Start	64	End	378
GI	none	Score	.44
Exons	64..87, 173..238, 281..378		

Seq. No.	51407	Seq. ID	OJ990821_51.0419.C25
Gene No.	108973	Strand	-
Start	1287	End	2227
Name	OJ990821_51.0419.C25.o1.np	Method	AAT/NAP
Start	1035	End	1798
GI	4680183	Score	183
Exons	1035..1124, 1728..1798		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	51407	Seq. ID	OJ990821_51.0419.C25
Gene No.	108973	Strand	-
Start	1287	End	2227
Name	OJ990821_51.0419.C25.o2.gs	Method	GENSCAN
Start	1287	End	2227
GI	none	Score	.59
Exons	1287..1392, 1657..1817, 1935..2227		

Seq. No.	51408	Seq. ID	OJ990821_51.0419.C26
Gene No.	108974	Strand	-
Start	60	End	878
Name	OJ990821_51.0419.C26.o1.gs	Method	GENSCAN
Start	60	End	797

GI	none	Score	.66
Exons	60..255, 377..797		

Seq. No.	51408	Seq. ID	OJ990821_51.0419.C26
Gene No.	108974	Strand	-
Start	60	End	878
Name	OJ990821_51.0419.C26.o1.np	Method	AAT/NAP
Start	294	End	878
GI	7248393	Score	610
Exons	294..878		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	51409	Seq. ID	OJ990821_51.0419.C31
Gene No.	108975	Strand	+
Start	3159	End	6612
Name	OJ990821_51.0419.C31.o1.gs	Method	GENSCAN
Start	3159	End	6612
GI	none	Score	.47
Exons	3159..3304, 3395..3436, 5990..6041, 6224..6379, 6486..6612		

Seq. No.	51409	Seq. ID	OJ990821_51.0419.C31
Gene No.	108975	Strand	+
Start	3159	End	6612
Name	OJ990821_51.0419.C31.o1.np	Method	AAT/NAP
Start	5576	End	6231
GI	7228450	Score	181
Exons	5576..5769, 5903..6041, 6115..6231		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	51410	Seq. ID	OJ990821_51.0419.C32
Gene No.	108976	Strand	+
Start	1	End	2460
Name	OJ990821_51.0419.C32.o1.gp	Method	AAT/GAP
Start	1	End	2256
GI	LIB3434-055-P1-K1-E8	Score	754
Exons	1..154, 363..523, 2171..2256		
GI Descrip.	'2252863 6.0e-46 (AF013294) similar to nucleolin protein [Arabidopsis thaliana]'		

Seq. No.	51410	Seq. ID	OJ990821_51.0419.C32
Gene No.	108976	Strand	+
Start	1	End	2460
Name	OJ990821_51.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	2457
GI	7485284	Score	358
Exons	1..154, 363..506, 2145..2256, 2349..2457		
GI Descrip.	hypothetical protein A_TM018A10.14 - Arabidopsis thaliana gi 2252863 gb AAB62861.1 (AF013294) similar to nucleolin protein [Arabidopsis thaliana] gi 7267422 emb CAB80892.1 (AL161472) putative protein [Arabidopsis thaliana]		

Seq. No.	51410	Seq. ID	OJ990821_51.0419.C32
Gene No.	108976	Strand	+
Start	1	End	2460
Name	OJ990821_51.0419.C32.o1.gs	Method	GENSCAN
Start	383	End	2460
GI	none	Score	.4

Exons 383..523, 2171..2256, 2349..2460

Seq. No.	51410	Seq. ID	OJ990821_51.0419.C32
Gene No.	108977	Strand	+
Start	2474	End	2642
Name	OJ990821_51.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	1	End	2642
GI	none	Score	250
Exons	1..180, 6..161, 350..418, 355..426, 356..454, 366..467, 447..521, 462..527, 527..568, 2168..2257, 2170..2256, 2349..2429, 2350..2430, 2351..2431, 2427..2465, 2523..2642, 2527..2595		

Seq. No.	51410	Seq. ID	OJ990821_51.0419.C32
Gene No.	108977	Strand	+
Start	2474	End	2642
Name	OJ990821_51.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	1	End	415
GI	none	Score	231
Exons	1..180, 21..155, 22..165, 356..415		

Seq. No.	51410	Seq. ID	OJ990821_51.0419.C32
Gene No.	108977	Strand	+
Start	2474	End	2642
Name	OJ990821_51.0419.C32.o2.gp	Method	AAT/GAP
Start	2474	End	2612
GI	LIB3433-024-P1-K1-F8	Score	224
Exons	2474..2612		
GI Descrip.	'2062705/gb U90552 HSU90552 2.0e-11 Human butyrophilin (BTF5) mRNA, complete cds'		

Seq. No.	51411	Seq. ID	OJ990821_51.0419.C34
Gene No.	108978	Strand	+
Start	1074	End	1222
Name	OJ990821_51.0419.C34.o1.np	Method	AAT/NAP
Start	1074	End	1222
GI	6815099	Score	75
Exons	1074..1222		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	51411	Seq. ID	OJ990821_51.0419.C34
Gene No.	108979	Strand	-
Start	2091	End	3516
Name	OJ990821_51.0419.C34.o2.np	Method	AAT/NAP
Start	2091	End	3516
GI	5852084	Score	68
Exons	2091..2174, 3486..3516		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	51412	Seq. ID	OJ990821_51.0419.C35
Gene No.	108980	Strand	+
Start	851	End	1517
Name	OJ990821_51.0419.C35.o1.gp	Method	AAT/GAP
Start	851	End	1517
GI	25600 1.R1084	Score	1220
Exons	851..1517		
GI Descrip.	'3402282/emb CAA04449 1.0e-11 (AJ000997) proline-rich protein		

[Solanum tuberosum]'

Seq. No.	51412	Seq. ID	OJ990821_51.0419.C35
Gene No.	108981	Strand	-
Start	1	End	1517
Name	OJ990821_51.0419.C35.o1.np	Method	AAT/NAP
Start	1	End	1517
GI	6689616	Score	312
Exons	1..37, 1086..1517		
GI Descrip.	(AJ012301) proline-rich protein [Zea mays]		

Seq. No.	51412	Seq. ID	OJ990821_51.0419.C35
Gene No.	108981	Strand	-
Start	1	End	1517
Name	OJ990821_51.0419.C35.o1.gs	Method	GENSCAN
Start	1149	End	1421
GI	none	Score	.95
Exons	1149..1421		

Seq. No.	51413	Seq. ID	OJ990821_51.0419.C36
Gene No.	108982	Strand	-
Start	1	End	446
Name	OJ990821_51.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	388
GI	6689616	Score	101
Exons	1..34, 228..388		
GI Descrip.	(AJ012301) proline-rich protein [Zea mays]		

Seq. No.	51413	Seq. ID	OJ990821_51.0419.C36
Gene No.	108982	Strand	-
Start	1	End	446
Name	OJ990821_51.0419.C36.o1.gp	Method	AAT/GAP
Start	232	End	446
GI	25600_1.R1084	Score	343
Exons	232..446		
GI Descrip.	'3402282/emb CAA04449 1.0e-11 (AJ000997) proline-rich protein [Solanum tuberosum]'		

Seq. No.	51413	Seq. ID	OJ990821_51.0419.C36
Gene No.	108982	Strand	-
Start	1	End	446
Name	OJ990821_51.0419.C36.o1.gs	Method	GENSCAN
Start	232	End	385
GI	none	Score	.92
Exons	232..385		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108983	Strand	+
Start	189	End	5901
Name	OJ990821_51.0419.C38.o1.gs	Method	GENSCAN
Start	189	End	5901
GI	none	Score	.42
Exons	189..347, 616..648, 1243..2203, 4907..5901		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108983	Strand	+
Start	189	End	5901

Name	OJ990821_51.0419.C38.o2.np	Method	AAT/NAP
Start	5104	End	5634
GI	7243648	Score	875
Exons	5104..5634		
GI Descrip.	(AF230502) serine/threonine protein kinase [Oryza sativa subsp. japonica]		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108984	Strand	+
Start	8547	End	8640
Name	OJ990821_51.0419.C38.o1.gp	Method	AAT/GAP
Start	8547	End	8640
GI	LIB3434-055-P1-K1-E8	Score	144
Exons	8547..8640		
GI Descrip.	'2252863 6.0e-46 (AF013294) similar to nucleolin protein [Arabidopsis thaliana]'		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108985	Strand	-
Start	25	End	163
Name	OJ990821_51.0419.C38.o1.np	Method	AAT/NAP
Start	25	End	163
GI	7106528	Score	82
Exons	25..163		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108986	Strand	-
Start	7568	End	10826
Name	OJ990821_51.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	1351	End	5880
GI	none	Score	84
Exons	1351..1425, 1792..1863, 1912..2004, 2101..2181, 5080..5334, 5088..5342, 5364..5534, 5365..5535, 5530..5652, 5547..5648, 5752..5880		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108986	Strand	-
Start	7568	End	10826
Name	OJ990821_51.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	4935	End	5670
GI	none	Score	48
Exons	4935..5030, 4969..5022, 5074..5157, 5089..5151, 5187..5333, 5188..5334, 5341..5529, 5539..5670		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108986	Strand	-
Start	7568	End	10826
Name	OJ990821_51.0419.C38.o2.tm	Method	TBLASTX:Maize
Start	4984	End	5892
GI	none	Score	45
Exons	4984..5016, 4986..5036, 5035..5109, 5074..5346, 5091..5315, 5368..5532, 5442..5516, 5533..5652, 5547..5648, 5755..5892		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108986	Strand	-

Start	7568	End	10826
Name	OJ990821_51.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	5086	End	5505
GI	none	Score	60
Exons	5086..5142, 5140..5505		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108986	Strand	-
Start	7568	End	10826
Name	OJ990821_51.0419.C38.o3.np	Method	AAT/NAP
Start	7214	End	10826
GI	7485284	Score	519
Exons	7214..7237, 8553..8842, 9283..9474, 10171..10347, 10429..10576, 10627..10826		

GI Descrip. hypothetical protein A_TM018A10.14 - Arabidopsis thaliana gi|2252863|gb|AAB62861.1| (AF013294) similar to nucleolin protein [Arabidopsis thaliana] gi|7267422|emb|CAB80892.1| (AL161472) putative protein [Arabidopsis thaliana]

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108986	Strand	-
Start	7568	End	10826
Name	OJ990821_51.0419.C38.o2.gs	Method	GENSCAN
Start	7568	End	10772
GI	none	Score	.43
Exons	7568..7730, 8553..8638, 9391..9504, 10162..10347, 10429..10539, 10656..10772		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108986	Strand	-
Start	7568	End	10826
Name	OJ990821_51.0419.C38.o3.tm	Method	TBLASTX:Maize
Start	8546	End	9481
GI	none	Score	112
Exons	8546..8635, 8552..8641, 8553..8639, 9294..9338, 9295..9474, 9302..9337, 9326..9481, 9332..9472, 9343..9474		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108986	Strand	-
Start	7568	End	10826
Name	OJ990821_51.0419.C38.o2.ts	Method	TBLASTX:Soybean
Start	8552	End	10775
GI	none	Score	60
Exons	8552..8611, 8553..8612, 8618..8641, 9343..9474, 9356..9472, 9376..9474, 10201..10332, 10202..10333, 10204..10350, 10427..10570, 10429..10569, 10662..10775, 10678..10764		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
Gene No.	108986	Strand	-
Start	7568	End	10826
Name	OJ990821_51.0419.C38.o2.tc	Method	TBLASTX:Cress
Start	10201	End	10758
GI	none	Score	126
Exons	10201..10329, 10208..10363, 10429..10572, 10451..10570, 10656..10757, 10657..10758		

Seq. No.	51414	Seq. ID	OJ990821_51.0419.C38
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Gene No.	108986	Strand	-
Start	7568	End	10826
Name	OJ990821_51.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	10213	End	10778
GI	none	Score	200
Exons	10213..10341, 10214..10342, 10319..10348, 10427..10570, 10427..10570, 10428..10571, 10428..10571, 10429..10572, 10429..10572, 10656..10745, 10695..10775, 10696..10773, 10701..10778		

Seq. No.	51415	Seq. ID	OJ990821_51.0419.C40
Gene No.	108987	Strand	+
Start	1	End	2054
Name	OJ990821_51.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	329
GI	7248393	Score	271
Exons	1..329		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	51415	Seq. ID	OJ990821_51.0419.C40
Gene No.	108987	Strand	+
Start	1	End	2054
Name	OJ990821_51.0419.C40.o1.gs	Method	GENSCAN
Start	199	End	2054
GI	none	Score	.48
Exons	199..392, 471..1464, 1484..2054		

Seq. No.	51416	Seq. ID	OJ990821_51.0419.C43
Gene No.	108988	Strand	+
Start	2766	End	3772
Name	OJ990821_51.0419.C43.o1.np	Method	AAT/NAP
Start	2766	End	3772
GI	7228450	Score	126
Exons	2766..2879, 3206..3292, 3426..3566, 3661..3772		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	51416	Seq. ID	OJ990821_51.0419.C43
Gene No.	108989	Strand	+
Start	3737	End	3917
Name	OJ990821_51.0419.C43.o2.np	Method	AAT/NAP
Start	3737	End	3917
GI	6498441	Score	164
Exons	3737..3917		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	51416	Seq. ID	OJ990821_51.0419.C43
Gene No.	108990	Strand	-
Start	1277	End	3654
Name	OJ990821_51.0419.C43.o1.gs	Method	GENSCAN
Start	1277	End	3654
GI	none	Score	.58
Exons	1277..1670, 2240..2376, 2727..3062, 3178..3276, 3567..3654		

Seq. No.	51417	Seq. ID	OJ990821_51.0419.C44
Gene No.	108991	Strand	+

Start	1	End	1100
Name	OJ990821_51.0419.C44.o1.np	Method	AAT/NAP
Start	1	End	769
GI	5902445	Score	644
Exons	1..769		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	51417	Seq. ID	OJ990821_51.0419.C44
Gene No.	108991	Strand	+
Start	1	End	1100
Name	OJ990821_51.0419.C44.o1.gs	Method	GENSCAN
Start	23	End	1100
GI	none	Score	.88
Exons	23..346, 532..657, 733..769, 799..1100		

Seq. No.	51417	Seq. ID	OJ990821_51.0419.C44
Gene No.	108991	Strand	+
Start	1	End	1100
Name	OJ990821_51.0419.C44.o1.tm	Method	TBLASTX:Maize
Start	56	End	439
GI	none	Score	233
Exons	56..439, 95..166, 205..432		

Seq. No.	51417	Seq. ID	OJ990821_51.0419.C44
Gene No.	108991	Strand	+
Start	1	End	1100
Name	OJ990821_51.0419.C44.o1.tw	Method	TBLASTX:Wheat
Start	134	End	510
GI	none	Score	335
Exons	134..499, 208..510		

Seq. No.	51417	Seq. ID	OJ990821_51.0419.C44
Gene No.	108991	Strand	+
Start	1	End	1100
Name	OJ990821_51.0419.C44.o1.ts	Method	TBLASTX:Soybean
Start	164	End	493
GI	none	Score	200
Exons	164..493, 202..348		

Seq. No.	51418	Seq. ID	OJ990821_51.0419.C46
Gene No.	108992	Strand	+
Start	143	End	908
Name	OJ990821_51.0419.C46.o1.gp	Method	AAT/GAP
Start	143	End	908
GI	25600_4.R1084	Score	1465
Exons	143..908		
GI Descrip.	'3402282/emb CAA04449 2.0e-13 (AJ000997) proline-rich protein [Solanum tuberosum]'		

Seq. No.	51418	Seq. ID	OJ990821_51.0419.C46
Gene No.	108993	Strand	-
Start	429	End	908
Name	OJ990821_51.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	411	End	903
GI	none	Score	56
Exons	411..446, 449..511, 455..511, 506..556, 506..547, 515..556, 529..555, 660..770, 661..774, 752..853, 768..902, 769..903,		

769..903

Seq. No.	51418	Seq. ID	OJ990821_51.0419.C46
Gene No.	108993	Strand	-
Start	429	End	908
Name	OJ990821_51.0419.C46.o1.gs	Method	GENSCAN
Start	429	End	849
GI	none	Score	.89
Exons	429..849		

Seq. No.	51418	Seq. ID	OJ990821_51.0419.C46
Gene No.	108993	Strand	-
Start	429	End	908
Name	OJ990821_51.0419.C46.o1.np	Method	AAT/NAP
Start	439	End	908
GI	6689616	Score	434
Exons	439..908		
GI Descrip.	(AJ012301) proline-rich protein [Zea mays]		

Seq. No.	51419	Seq. ID	OJ990821_51.0419.C47
Gene No.	108994	Strand	+
Start	1	End	3341
Name	OJ990821_51.0419.C47.o1.np	Method	AAT/NAP
Start	1	End	1018
GI	6466937	Score	452
Exons	1..1018		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	51419	Seq. ID	OJ990821_51.0419.C47
Gene No.	108994	Strand	+
Start	1	End	3341
Name	OJ990821_51.0419.C47.o3.tm	Method	TBLASTX:Maize
Start	8	End	297
GI	none	Score	40
Exons	8..58, 70..297		

Seq. No.	51419	Seq. ID	OJ990821_51.0419.C47
Gene No.	108994	Strand	+
Start	1	End	3341
Name	OJ990821_51.0419.C47.o2.tw	Method	TBLASTX:Wheat
Start	67	End	498
GI	none	Score	212
Exons	67..498		

Seq. No.	51419	Seq. ID	OJ990821_51.0419.C47
Gene No.	108994	Strand	+
Start	1	End	3341
Name	OJ990821_51.0419.C47.o1.gs	Method	GENSCAN
Start	81	End	993
GI	none	Score	.58
Exons	81..993		

Seq. No.	51419	Seq. ID	OJ990821_51.0419.C47
Gene No.	108994	Strand	+
Start	1	End	3341
Name	OJ990821_51.0419.C47.o2.np	Method	AAT/NAP

Start	112	End	3341
GI	6466937	Score	485
Exons	112..142, 1382..1496, 1645..2264, 2304..3341		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	51419	Seq. ID	OJ990821_51.0419.C47
Gene No.	108994	Strand	+
Start	1	End	3341
Name	OJ990821_51.0419.C47.o2.tm	Method	TBLASTX:Maize
Start	301	End	846
GI	none	Score	143
Exons	301..471, 574..684, 594..845, 745..846		

Seq. No.	51419	Seq. ID	OJ990821_51.0419.C47
Gene No.	108994	Strand	+
Start	1	End	3341
Name	OJ990821_51.0419.C47.o2.gs	Method	GENSCAN
Start	1290	End	3329
GI	none	Score	.68
Exons	1290..1754, 1842..2393, 2410..2856, 2899..3120, 3171..3329		

Seq. No.	51419	Seq. ID	OJ990821_51.0419.C47
Gene No.	108994	Strand	+
Start	1	End	3341
Name	OJ990821_51.0419.C47.o4.tm	Method	TBLASTX:Maize
Start	1652	End	1880
GI	none	Score	192
Exons	1652..1879, 1653..1880		

Seq. No.	51419	Seq. ID	OJ990821_51.0419.C47
Gene No.	108994	Strand	+
Start	1	End	3341
Name	OJ990821_51.0419.C47.o1.tm	Method	TBLASTX:Maize
Start	2926	End	3332
GI	none	Score	133
Exons	2926..3150, 3150..3332		

Seq. No.	51419	Seq. ID	OJ990821_51.0419.C47
Gene No.	108994	Strand	+
Start	1	End	3341
Name	OJ990821_51.0419.C47.o1.tw	Method	TBLASTX:Wheat
Start	3013	End	3338
GI	none	Score	82
Exons	3013..3141, 3158..3322, 3159..3338, 3168..3332		

Seq. No.	51420	Seq. ID	OJ990821_51.0419.C48
Gene No.	108995	Strand	+
Start	1	End	3065
Name	OJ990821_51.0419.C48.o1.np	Method	AAT/NAP
Start	1	End	3065
GI	6466937	Score	341
Exons	1..558, 3042..3065		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	51420	Seq. ID	OJ990821_51.0419.C48
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Gene No.	108995	Strand	+
Start	1	End	3065
Name	OJ990821_51.0419.C48.o2.np	Method	AAT/NAP
Start	1	End	2406
GI	5257279	Score	276
Exons	1..586, 2350..2406		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	51420	Seq. ID	OJ990821_51.0419.C48
Gene No.	108995	Strand	+
Start	1	End	3065
Name	OJ990821_51.0419.C48.o1.gs	Method	GENSCAN
Start	44	End	597
GI	none	Score	.93
Exons	44..386, 460..597		

Seq. No.	51420	Seq. ID	OJ990821_51.0419.C48
Gene No.	108996	Strand	-
Start	712	End	2607
Name	OJ990821_51.0419.C48.o1.tm	Method	TBLASTX:Maize
Start	22	End	356
GI	none	Score	84
Exons	22..93, 101..259, 102..356		

Seq. No.	51420	Seq. ID	OJ990821_51.0419.C48
Gene No.	108996	Strand	-
Start	712	End	2607
Name	OJ990821_51.0419.C48.o2.gs	Method	GENSCAN
Start	712	End	2607
GI	none	Score	.75
Exons	712..728, 1274..1404, 2570..2607		

Seq. No.	51421	Seq. ID	OJ990821_51.0419.C50
Gene No.	108997	Strand	-
Start	1	End	1009
Name	OJ990821_51.0419.C50.o1.np	Method	AAT/NAP
Start	1	End	1009
GI	6630696	Score	602
Exons	1..67, 407..1009		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	51421	Seq. ID	OJ990821_51.0419.C50
Gene No.	108997	Strand	-
Start	1	End	1009
Name	OJ990821_51.0419.C50.o1.tw	Method	TBLASTX:Wheat
Start	717	End	1000
GI	none	Score	44
Exons	717..809, 717..815, 721..816, 821..1000, 822..914, 850..984		

Seq. No.	51422	Seq. ID	OJ990821_51.0419.C51
Gene No.	108998	Strand	+
Start	75	End	240
Name	OJ990821_51.0419.C51.o1.gs	Method	GENSCAN
Start	75	End	240

GI	none	Score	.92
Exons	75..240		

Seq. No.	51422	Seq. ID	OJ990821_51.0419.C51
Gene No.	108999	Strand	-
Start	1	End	2455
Name	OJ990821_51.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	1079
GI	6630696	Score	858
Exons	1..1079		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	51422	Seq. ID	OJ990821_51.0419.C51
Gene No.	108999	Strand	-
Start	1	End	2455
Name	OJ990821_51.0419.C51.o1.tm	Method	TBLASTX:Maize
Start	734	End	1036
GI	none	Score	80
Exons	734..1036, 769..915, 804..1031		

Seq. No.	51422	Seq. ID	OJ990821_51.0419.C51
Gene No.	108999	Strand	-
Start	1	End	2455
Name	OJ990821_51.0419.C51.o2.np	Method	AAT/NAP
Start	787	End	2455
GI	6539588	Score	198
Exons	787..851, 2155..2455		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	51422	Seq. ID	OJ990821_51.0419.C51
Gene No.	108999	Strand	-
Start	1	End	2455
Name	OJ990821_51.0419.C51.o1.tw	Method	TBLASTX:Wheat
Start	790	End	1178
GI	none	Score	88
Exons	790..921, 790..921, 794..961, 794..1036, 804..1037, 1047..1178		

Seq. No.	51423	Seq. ID	OJ990821_51.0419.C52
Gene No.	109000	Strand	+
Start	808	End	936
Name	OJ990821_51.0419.C52.o1.np	Method	AAT/NAP
Start	808	End	936
GI	6979335	Score	66
Exons	808..936		
GI Descrip.	(AF172282) receptor-like protein kinase [Oryza sativa]		

Seq. No.	51424	Seq. ID	OJ990821_51.0419.C53
Gene No.	109001	Strand	-
Start	427	End	467
Name	OJ990821_51.0419.C53.o1.gs	Method	GENSCAN
Start	427	End	467
GI	none	Score	.72
Exons	427..467		

Seq. No.	51425	Seq. ID	OJ990821_53.0419.C1
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Gene No.	109002	Strand	+
Start	211	End	1963
Name	OJ990821_53.0419.C1.o1.gs	Method	GENSCAN
Start	211	End	1932
GI	none	Score	.49
Exons	211..333, 1610..1672, 1717..1932		

Seq. No.	51425	Seq. ID	OJ990821_53.0419.C1
Gene No.	109002	Strand	+
Start	211	End	1963
Name	OJ990821_53.0419.C1.o1.np	Method	AAT/NAP
Start	1557	End	1963
GI	6006381	Score	285
Exons	1557..1963		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	51426	Seq. ID	OJ990821_53.0419.C2
Gene No.	109003	Strand	+
Start	298	End	861
Name	OJ990821_53.0419.C2.o1.gp	Method	AAT/GAP
Start	298	End	861
GI	4714953	Score	1082
Exons	298..861		

Seq. No.	51426	Seq. ID	OJ990821_53.0419.C2
Gene No.	109004	Strand	-
Start	459	End	728
Name	OJ990821_53.0419.C2.o1.gs	Method	GENSCAN
Start	459	End	728
GI	none	Score	.58
Exons	459..556, 607..728		

Seq. No.	51427	Seq. ID	OJ990821_53.0419.C4
Gene No.	109005	Strand	+
Start	419	End	1070
Name	OJ990821_53.0419.C4.o1.np	Method	AAT/NAP
Start	419	End	1070
GI	7106515	Score	758
Exons	419..1070		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC T13P21 genomic sequence, putative helicase. (AC006067) [Oryza sativa]		

Seq. No.	51427	Seq. ID	OJ990821_53.0419.C4
Gene No.	109005	Strand	+
Start	419	End	1070
Name	OJ990821_53.0419.C4.o1.gs	Method	GENSCAN
Start	515	End	821
GI	none	Score	.41
Exons	515..821		

Seq. No.	51427	Seq. ID	OJ990821_53.0419.C4
Gene No.	109005	Strand	+
Start	419	End	1070
Name	OJ990821_53.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	560	End	1070
GI	none	Score	69

Exons 560..613, 628..819, 629..844, 844..1068, 850..1065, 1002..1070

Seq. No.	51428	Seq. ID	OJ990821_53.0419.C5
Gene No.	109006	Strand	+
Start	1	End	1454
Name	OJ990821_53.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1454
GI	7106515	Score	1558
Exons	1..1454		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC T13P21 genomic sequence, putative helicase. (AC006067) [Oryza sativa]		

Seq. No.	51428	Seq. ID	OJ990821_53.0419.C5
Gene No.	109006	Strand	+
Start	1	End	1454
Name	OJ990821_53.0419.C5.o1.gs	Method	GENSCAN
Start	7	End	1356
GI	none	Score	.87
Exons	7..1356		

Seq. No.	51428	Seq. ID	OJ990821_53.0419.C5
Gene No.	109006	Strand	+
Start	1	End	1454
Name	OJ990821_53.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	178	End	540
GI	none	Score	305
Exons	178..540, 180..461		

Seq. No.	51428	Seq. ID	OJ990821_53.0419.C5
Gene No.	109006	Strand	+
Start	1	End	1454
Name	OJ990821_53.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	792	End	1023
GI	none	Score	178
Exons	792..1004, 793..1023		

Seq. No.	51428	Seq. ID	OJ990821_53.0419.C5
Gene No.	109006	Strand	+
Start	1	End	1454
Name	OJ990821_53.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	844	End	1101
GI	none	Score	192
Exons	844..1101		

Seq. No.	51428	Seq. ID	OJ990821_53.0419.C5
Gene No.	109006	Strand	+
Start	1	End	1454
Name	OJ990821_53.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	847	End	1167
GI	none	Score	170
Exons	847..1083, 849..995, 1093..1167		

Seq. No.	51428	Seq. ID	OJ990821_53.0419.C5
Gene No.	109006	Strand	+
Start	1	End	1454
Name	OJ990821_53.0419.C5.o1.ts	Method	TBLASTX:Soybean

Start	1093	End	1275
GI	none	Score	202
Exons	1093..1275, 1093..1242, 1095..1271		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	2068
GI	5902445	Score	3245
Exons	1..2068		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o4.tw	Method	TBLASTX:Wheat
Start	1	End	279
GI	none	Score	261
Exons	1..279, 6..278		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o1.gs	Method	GENSCAN
Start	58	End	318
GI	none	Score	.99
Exons	58..318		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	154	End	540
GI	none	Score	290
Exons	154..540, 171..314, 187..468, 351..521		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	222	End	666
GI	none	Score	275
Exons	222..476, 223..477, 223..480, 498..629, 499..642, 640..666		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o2.tw	Method	TBLASTX:Wheat
Start	318	End	750
GI	none	Score	76
Exons	318..734, 324..581, 325..750		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o2.ts	Method	TBLASTX:Soybean

Start	790	End	1168
GI	none	Score	73
Exons	790..885, 920..1168, 924..1166		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o3.tw	Method	TBLASTX:Wheat
Start	790	End	1211
GI	none	Score	120
Exons	790..900, 795..896, 927..1118, 929..1111, 929..1135, 930..1211		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o2.gs	Method	GENSCAN
Start	906	End	1976
GI	none	Score	.84
Exons	906..1976		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o5.tw	Method	TBLASTX:Wheat
Start	1227	End	1526
GI	none	Score	131
Exons	1227..1361, 1418..1483, 1428..1526		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	1524	End	1886
GI	none	Score	443
Exons	1524..1847, 1544..1834, 1839..1886		

Seq. No.	51429	Seq. ID	OJ990821_53.0419.C6
Gene No.	109007	Strand	+
Start	1	End	2068
Name	OJ990821_53.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	1529	End	1918
GI	none	Score	429
Exons	1529..1840, 1530..1916, 1731..1907, 1871..1918		

Seq. No.	51430	Seq. ID	OJ990821_53.0419.C7
Gene No.	109008	Strand	-
Start	362	End	1926
Name	OJ990821_53.0419.C7.o1.gs	Method	GENSCAN
Start	362	End	1761
GI	none	Score	.83
Exons	362..813, 876..980, 1580..1761		

Seq. No.	51430	Seq. ID	OJ990821_53.0419.C7
Gene No.	109008	Strand	-
Start	362	End	1926
Name	OJ990821_53.0419.C7.o1.np	Method	AAT/NAP
Start	374	End	1926

GI 6691716 Score 1024
 Exons 374..813, 876..980, 1130..1241, 1316..1502, 1580..1761, 1838..1926
 GI Descrip. (AP000492) hypothetical protein [Oryza sativa]
 gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]

Seq. No. 51430 Seq. ID OJ990821_53.0419.C7
 Gene No. 109008 Strand -
 Start 362 End 1926
 Name OJ990821_53.0419.C7.o2.np Method AAT/NAP
 Start 1545 End 1926
 GI 5902447 Score 206
 Exons 1545..1926
 GI Descrip. (AB030283) orf4 [Oryza sativa]

Seq. No. 51431 Seq. ID OJ990821_53.0419.C8
 Gene No. 109009 Strand -
 Start 1 End 777
 Name OJ990821_53.0419.C8.o1.np Method AAT/NAP
 Start 1 End 777
 GI 5902448 Score 1306
 Exons 1..777
 GI Descrip. (AB030283) orf3 [Oryza sativa]

Seq. No. 51431 Seq. ID OJ990821_53.0419.C8
 Gene No. 109009 Strand -
 Start 1 End 777
 Name OJ990821_53.0419.C8.o1.gs Method GENSCAN
 Start 127 End 777
 GI none Score .63
 Exons 127..777

Seq. No. 51431 Seq. ID OJ990821_53.0419.C8
 Gene No. 109009 Strand -
 Start 1 End 777
 Name OJ990821_53.0419.C8.o1.tw Method TBLASTX:Wheat
 Start 367 End 657
 GI none Score 58
 Exons 367..657, 404..517

Seq. No. 51432 Seq. ID OJ990821_53.0419.C12
 Gene No. 109010 Strand +
 Start 601 End 900
 Name OJ990821_53.0419.C12.o1.gp Method AAT/GAP
 Start 601 End 900
 GI 2796400 Score 159
 Exons 601..623, 792..900

Seq. No. 51432 Seq. ID OJ990821_53.0419.C12
 Gene No. 109011 Strand +
 Start 1585 End 1800
 Name OJ990821_53.0419.C12.o1.gs Method GENSCAN
 Start 1585 End 1800
 GI none Score .77
 Exons 1585..1658, 1663..1800

Seq. No. 51433
Gene No. 109012
Start 1597
Name OJ990821_53.0419.C13.o2.tw
Start 1
GI none
Exons 1..96, 3..323

Seq. ID OJ990821_53.0419.C13
Strand -
End 4310
Method TBLASTX:Wheat
End 323
Score 56

Seq. No. 51433
Gene No. 109012
Start 1597
Name OJ990821_53.0419.C13.o5.ts
Start 1
GI none
Exons 1..84, 3..131, 6..128

Seq. ID OJ990821_53.0419.C13
Strand -
End 4310
Method TBLASTX:Soybean
End 131
Score 82

Seq. No. 51433
Gene No. 109012
Start 1597
Name OJ990821_53.0419.C13.o1.ts
Start 1356
GI none
Exons 1356..1448, 1366..1440, 1451..1477, 1510..1605, 1520..1591, 1630..1773, 1667..1765

Seq. ID OJ990821_53.0419.C13
Strand -
End 4310
Method TBLASTX:Soybean
End 1773
Score 51

Seq. No. 51433
Gene No. 109012
Start 1597
Name OJ990821_53.0419.C13.o1.np
Start 1597
GI 7248394
Exons 1597..2678, 2948..3225, 3268..3917

Seq. ID OJ990821_53.0419.C13
Strand -
End 4310
Method AAT/NAP
End 3917
Score 2597

GI Descrip. (AP001389) ESTs C97394(C60113), AU075824(R0165), D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)

Seq. No. 51433
Gene No. 109012
Start 1597
Name OJ990821_53.0419.C13.o3.tw
Start 2011
GI none
Exons 2011..2112, 2074..2391, 2186..2335

Seq. ID OJ990821_53.0419.C13
Strand -
End 4310
Method TBLASTX:Wheat
End 2391
Score 74

Seq. No. 51433
Gene No. 109012
Start 1597
Name OJ990821_53.0419.C13.o1.tm
Start 2080
GI none
Exons 2080..2541, 2081..2389, 2253..2435, 2408..2539, 2463..2540

Seq. ID OJ990821_53.0419.C13
Strand -
End 4310
Method TBLASTX:Maize
End 2541
Score 299

Seq. No. 51433
Gene No. 109012
Start 1597

Seq. ID OJ990821_53.0419.C13
Strand -
End 4310

Name	OJ990821_53.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	2227	End	2466
GI	none	Score	118
Exons	2227..2379, 2236..2466, 2237..2431		

Seq. No.	51433	Seq. ID	OJ990821_53.0419.C13
Gene No.	109012	Strand	-
Start	1597	End	4310
Name	OJ990821_53.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	2408	End	2817
GI	none	Score	458
Exons	2408..2812, 2408..2803, 2410..2817, 2581..2817		

Seq. No.	51433	Seq. ID	OJ990821_53.0419.C13
Gene No.	109012	Strand	-
Start	1597	End	4310
Name	OJ990821_53.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	2542	End	2757
GI	none	Score	226
Exons	2542..2757, 2543..2755		

Seq. No.	51433	Seq. ID	OJ990821_53.0419.C13
Gene No.	109012	Strand	-
Start	1597	End	4310
Name	OJ990821_53.0419.C13.o4.ts	Method	TBLASTX:Soybean
Start	2611	End	2934
GI	none	Score	108
Exons	2611..2745, 2761..2934		

Seq. No.	51433	Seq. ID	OJ990821_53.0419.C13
Gene No.	109012	Strand	-
Start	1597	End	4310
Name	OJ990821_53.0419.C13.o2.gs	Method	GENSCAN
Start	3240	End	4310
GI	none	Score	.81
Exons	3240..4310		

Seq. No.	51433	Seq. ID	OJ990821_53.0419.C13
Gene No.	109012	Strand	-
Start	1597	End	4310
Name	OJ990821_53.0419.C13.o3.ts	Method	TBLASTX:Soybean
Start	3459	End	3821
GI	none	Score	191
Exons	3459..3821		

Seq. No.	51434	Seq. ID	OJ990821_53.0419.C19
Gene No.	109013	Strand	-
Start	1	End	1176
Name	OJ990821_53.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1176
GI	7486800	Score	314
Exons	1..161, 232..358, 1144..1176		
GI Descrip.	hypothetical protein M4I22.150 - Arabidopsis thaliana gi 3269295 emb CAA19728.1 (AL030978) putative protein [Arabidopsis thaliana] gi 7269587 emb CAB79589.1 (AL161566) putative protein [Arabidopsis thaliana]		

Seq. No.	51434	Seq. ID	OJ990821_53.0419.C19
Gene No.	109013	Strand	-
Start	1	End	1176
Name	OJ990821_53.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	3	End	318
GI	none	Score	158
Exons	3..164, 25..162, 226..318, 230..316		

Seq. No.	51434	Seq. ID	OJ990821_53.0419.C19
Gene No.	109013	Strand	-
Start	1	End	1176
Name	OJ990821_53.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	6	End	318
GI	none	Score	69
Exons	6..164, 7..153, 226..318		

Seq. No.	51434	Seq. ID	OJ990821_53.0419.C19
Gene No.	109013	Strand	-
Start	1	End	1176
Name	OJ990821_53.0419.C19.o1.gs	Method	GENSCAN
Start	62	End	848
GI	none	Score	.74
Exons	62..161, 232..351, 796..848		

Seq. No.	51435	Seq. ID	OJ990821_53.0419.C20
Gene No.	109014	Strand	-
Start	417	End	1431
Name	OJ990821_53.0419.C20.o1.np	Method	AAT/NAP
Start	417	End	1431
GI	7486800	Score	216
Exons	417..493, 981..1431		
GI Descrip.	hypothetical protein M4I22.150 - Arabidopsis thaliana gi 3269295 emb CAA19728.1 (AL030978) putative protein [Arabidopsis thaliana] gi 7269587 emb CAB79589.1 (AL161566) putative protein [Arabidopsis thaliana]		

Seq. No.	51435	Seq. ID	OJ990821_53.0419.C20
Gene No.	109014	Strand	-
Start	417	End	1431
Name	OJ990821_53.0419.C20.o1.gs	Method	GENSCAN
Start	422	End	1377
GI	none	Score	.93
Exons	422..520, 1008..1377		

Seq. No.	51435	Seq. ID	OJ990821_53.0419.C20
Gene No.	109014	Strand	-
Start	417	End	1431
Name	OJ990821_53.0419.C20.o1.gp	Method	AAT/GAP
Start	594	End	1044
GI	none	Score	878
Exons	594..1044		

Seq. No.	51436	Seq. ID	OJ990821_53.0419.C22
Gene No.	109015	Strand	+
Start	332	End	696
Name	OJ990821_53.0419.C22.o1.gp	Method	AAT/GAP
Start	332	End	696

GI	none	Score	190
Exons	332..452, 664..696		

Seq. No.	51437	Seq. ID	OJ990821_53.0419.C23
Gene No.	109016	Strand	+
Start	1835	End	2550
Name	OJ990821_53.0419.C23.o1.np	Method	AAT/NAP
Start	1835	End	2550
GI	6358764	Score	270
Exons	1835..2550		
GI Descrip.	(AC011665) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51437	Seq. ID	OJ990821_53.0419.C23
Gene No.	109017	Strand	-
Start	1290	End	2550
Name	OJ990821_53.0419.C23.o1.gs	Method	GENSCAN
Start	1290	End	1986
GI	none	Score	.78
Exons	1290..1418, 1453..1737, 1862..1986		

Seq. No.	51437	Seq. ID	OJ990821_53.0419.C23
Gene No.	109017	Strand	-
Start	1290	End	2550
Name	OJ990821_53.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	1488	End	2550
GI	none	Score	60
Exons	1488..1640, 1960..2181, 1960..2124, 2014..2124, 2242..2550, 2272..2550, 2374..2544		

Seq. No.	51438	Seq. ID	OJ990821_53.0419.C24
Gene No.	109018	Strand	+
Start	2208	End	2834
Name	OJ990821_53.0419.C24.o1.gs	Method	GENSCAN
Start	2208	End	2834
GI	none	Score	.83
Exons	2208..2331, 2497..2834		

Seq. No.	51439	Seq. ID	OJ990821_53.0419.C30
Gene No.	109019	Strand	-
Start	1	End	632
Name	OJ990821_53.0419.C30.o1.gp	Method	AAT/GAP
Start	1	End	535
GI	3938_1.R1084	Score	798
Exons	1..211, 309..535		
GI Descrip.	'3269295/emb CAA19728.1 2.0e-09 (AL030978) putative protein [Arabidopsis thaliana]'		

Seq. No.	51439	Seq. ID	OJ990821_53.0419.C30
Gene No.	109019	Strand	-
Start	1	End	632
Name	OJ990821_53.0419.C30.o1.np	Method	AAT/NAP
Start	65	End	224
GI	7486800	Score	107
Exons	65..224		
GI Descrip.	hypothetical protein M4I22.150 - Arabidopsis thaliana gi 3269295 emb CAA19728.1 (AL030978) putative protein [Arabidopsis thaliana] gi 7269587 emb CAB79589.1 (AL161566)		

putative protein [Arabidopsis thaliana]

Seq. No.	51439	Seq. ID	OJ990821_53.0419.C30
Gene No.	109019	Strand	-
Start	1	End	632
Name	OJ990821_53.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	89	End	371
GI	none	Score	110
Exons	89..214, 90..212, 301..369, 309..371		

Seq. No.	51439	Seq. ID	OJ990821_53.0419.C30
Gene No.	109019	Strand	-
Start	1	End	632
Name	OJ990821_53.0419.C30.o1.gs	Method	GENSCAN
Start	309	End	632
GI	none	Score	.84
Exons	309..424, 614..632		

Seq. No.	51440	Seq. ID	OJ990821_53.0419.C31
Gene No.	109020	Strand	-
Start	120	End	1269
Name	OJ990821_53.0419.C31.o1.gs	Method	GENSCAN
Start	120	End	1269
GI	none	Score	.48
Exons	120..140, 1069..1166, 1242..1269		

Seq. No.	51441	Seq. ID	OJ990821_53.0419.C35
Gene No.	109021	Strand	+
Start	497	End	724
Name	OJ990821_53.0419.C35.o2.np	Method	AAT/NAP
Start	497	End	724
GI	7523517	Score	188
Exons	497..724		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	51441	Seq. ID	OJ990821_53.0419.C35
Gene No.	109022	Strand	-
Start	1	End	724
Name	OJ990821_53.0419.C35.o1.np	Method	AAT/NAP
Start	1	End	724
GI	4680203	Score	263
Exons	1..332, 683..724		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51441	Seq. ID	OJ990821_53.0419.C35
Gene No.	109022	Strand	-
Start	1	End	724
Name	OJ990821_53.0419.C35.o1.tw	Method	TBLASTX:Wheat
Start	13	End	323
GI	none	Score	45
Exons	13..48, 18..50, 47..220, 54..227, 211..318, 225..323		

Seq. No.	51442	Seq. ID	OJ990821_53.0419.C36
Gene No.	109023	Strand	+
Start	465	End	1010
Name	OJ990821_53.0419.C36.o1.np	Method	AAT/NAP
Start	465	End	1010

GI	2498930	Score	569
Exons	465..529, 697..1010		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		
Seq. No.	51442	Seq. ID	OJ990821_53.0419.C36
Gene No.	109023	Strand	+
Start	465	End	1010
Name	OJ990821_53.0419.C36.o1.gs	Method	GENSCAN
Start	470	End	978
GI	none	Score	.74
Exons	470..529, 697..978		
Seq. No.	51443	Seq. ID	OJ990821_53.0419.C37
Gene No.	109024	Strand	+
Start	425	End	747
Name	OJ990821_53.0419.C37.o1.gs	Method	GENSCAN
Start	425	End	747
GI	none	Score	.47
Exons	425..747		
Seq. No.	51444	Seq. ID	OJ990821_53.0419.C39
Gene No.	109025	Strand	-
Start	415	End	581
Name	OJ990821_53.0419.C39.o1.np	Method	AAT/NAP
Start	415	End	581
GI	5852093	Score	61
Exons	415..581		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		
Seq. No.	51445	Seq. ID	OJ990821_53.0419.C41
Gene No.	109026	Strand	-
Start	1	End	904
Name	OJ990821_53.0419.C41.o1.np	Method	AAT/NAP
Start	1	End	904
GI	6815107	Score	229
Exons	1..26, 434..904		
GI Descrip.	(AP001081) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10;hypothetical protein (AL035538) [Oryza sativa]		
Seq. No.	51446	Seq. ID	OJ990821_53.0419.C45
Gene No.	109027	Strand	-
Start	1	End	1332
Name	OJ990821_53.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	1332
GI	6466937	Score	1275
Exons	1..1332		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	51446	Seq. ID	OJ990821_53.0419.C45
Gene No.	109027	Strand	-
Start	1	End	1332
Name	OJ990821_53.0419.C45.o3.tm	Method	TBLASTX:Maize
Start	1	End	219
GI	none	Score	117
Exons	1..219, 5..214		

Seq. No.	51446	Seq. ID	OJ990821_53.0419.C45
Gene No.	109027	Strand	-
Start	1	End	1332
Name	OJ990821_53.0419.C45.o2.ts	Method	TBLASTX:Soybean
Start	217	End	459
GI	none	Score	87
Exons	217..459, 320..451		

Seq. No.	51446	Seq. ID	OJ990821_53.0419.C45
Gene No.	109027	Strand	-
Start	1	End	1332
Name	OJ990821_53.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	220	End	739
GI	none	Score	112
Exons	220..591, 220..717, 320..469, 497..739		

Seq. No.	51446	Seq. ID	OJ990821_53.0419.C45
Gene No.	109027	Strand	-
Start	1	End	1332
Name	OJ990821_53.0419.C45.o2.tw	Method	TBLASTX:Wheat
Start	370	End	739
GI	none	Score	112
Exons	370..717, 373..663, 488..739		

Seq. No.	51446	Seq. ID	OJ990821_53.0419.C45
Gene No.	109027	Strand	-
Start	1	End	1332
Name	OJ990821_53.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	484	End	837
GI	none	Score	122
Exons	484..837, 488..832		

Seq. No.	51446	Seq. ID	OJ990821_53.0419.C45
Gene No.	109027	Strand	-
Start	1	End	1332
Name	OJ990821_53.0419.C45.o2.tm	Method	TBLASTX:Maize
Start	766	End	1249
GI	none	Score	112
Exons	766..1248, 767..967, 862..1200, 995..1249		

Seq. No.	51446	Seq. ID	OJ990821_53.0419.C45
Gene No.	109027	Strand	-
Start	1	End	1332
Name	OJ990821_53.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	820	End	1293
GI	none	Score	142
Exons	820..1293, 824..1198		

Seq. No.	51446	Seq. ID	OJ990821_53.0419.C45
Gene No.	109027	Strand	-
Start	1	End	1332
Name	OJ990821_53.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	842	End	1173
GI	none	Score	53
Exons	842..928, 850..1173, 1001..1036		

Seq. No. 51446
 Gene No. 109027
 Start 1
 Name OJ990821_53.0419.C45.o3.ts
 Start 952
 GI none
 Exons 952..1266

Seq. ID OJ990821_53.0419.C45
 Strand -
 End 1332
 Method TBLASTX:Soybean
 End 1266
 Score 201

Seq. No. 51447
 Gene No. 109028
 Start 95
 Name OJ990821_53.0419.C46.o1.gs
 Start 95
 GI none
 Exons 95..229, 385..573, 1059..1422, 1639..1691, 1760..1766

Seq. ID OJ990821_53.0419.C46
 Strand -
 End 1766
 Method GENSCAN
 End 1766
 Score .83

Seq. No. 51447
 Gene No. 109029
 Start 2121
 Name OJ990821_53.0419.C46.o1.gp
 Start 2121
 GI uC-osflcyp169e02b1
 Exons 2121..2203

Seq. ID OJ990821_53.0419.C46
 Strand -
 End 2203
 Method AAT/GAP
 End 2203
 Score 152

GI Descrip. '5051773/emb|CAB45066.1| 1.0e-08 (AL078637) putative protein [Arabidopsis thaliana]'

Seq. No. 51448
 Gene No. 109030
 Start 114
 Name OJ990821_53.0419.C47.o1.gs
 Start 114
 GI none
 Exons 114..218

Seq. ID OJ990821_53.0419.C47
 Strand +
 End 218
 Method GENSCAN
 End 218
 Score .64

Seq. No. 51449
 Gene No. 109031
 Start 1
 Name OJ990821_53.0419.C48.o1.np
 Start 1
 GI 6862915
 Exons 1..18, 477..599

Seq. ID OJ990821_53.0419.C48
 Strand -
 End 1005
 Method AAT/NAP
 End 599
 Score 81

GI Descrip. (AC018907) putative dual-specificity protein phosphatase [Arabidopsis thaliana]

Seq. No. 51449
 Gene No. 109031
 Start 1
 Name OJ990821_53.0419.C48.o1.gs
 Start 477
 GI none
 Exons 477..632, 950..1005

Seq. ID OJ990821_53.0419.C48
 Strand -
 End 1005
 Method GENSCAN
 End 1005
 Score .61

Seq. No. 51450
 Gene No. 109032
 Start 395
 Name OJ990821_53.0419.C50.o1.np
 Start 395

Seq. ID OJ990821_53.0419.C50
 Strand -
 End 1022
 Method AAT/NAP
 End 1022

GI	4680186	Score	134
Exons	395..596, 996..1022		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51450	Seq. ID	OJ990821_53.0419.C50
Gene No.	109032	Strand	-
Start	395	End	1022
Name	OJ990821_53.0419.C50.o1.gs	Method	GENSCAN
Start	730	End	830
GI	none	Score	.92
Exons	730..830		

Seq. No.	51451	Seq. ID	OJ990821_53.0419.C51
Gene No.	109033	Strand	-
Start	1	End	4581
Name	OJ990821_53.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	4067
GI	7489805	Score	1397
Exons	1..34, 974..3366, 3891..4067		
GI Descrip.	polyprotein - maize retrotransposon Cinfu1-1 gi 4206306 gb AAD11615.1 (AF049110) prpol [Zea mays]		

Seq. No.	51451	Seq. ID	OJ990821_53.0419.C51
Gene No.	109033	Strand	-
Start	1	End	4581
Name	OJ990821_53.0419.C51.o1.gs	Method	GENSCAN
Start	418	End	3213
GI	none	Score	.7
Exons	418..516, 914..1526, 1697..1946, 1990..2249, 2339..3213		

Seq. No.	51451	Seq. ID	OJ990821_53.0419.C51
Gene No.	109033	Strand	-
Start	1	End	4581
Name	OJ990821_53.0419.C51.o2.tw	Method	TBLASTX:Wheat
Start	1274	End	1705
GI	none	Score	81
Exons	1274..1510, 1516..1704, 1589..1705		

Seq. No.	51451	Seq. ID	OJ990821_53.0419.C51
Gene No.	109033	Strand	-
Start	1	End	4581
Name	OJ990821_53.0419.C51.o3.tw	Method	TBLASTX:Wheat
Start	2048	End	2248
GI	none	Score	201
Exons	2048..2248		

Seq. No.	51451	Seq. ID	OJ990821_53.0419.C51
Gene No.	109033	Strand	-
Start	1	End	4581
Name	OJ990821_53.0419.C51.o1.tm	Method	TBLASTX:Maize
Start	2254	End	2602
GI	none	Score	242
Exons	2254..2601, 2258..2602		

Seq. No.	51451	Seq. ID	OJ990821_53.0419.C51
Gene No.	109033	Strand	-
Start	1	End	4581

Name	OJ990821_53.0419.C51.o1.tw	Method	TBLASTX:Wheat
Start	2275	End	2730
GI	none	Score	276
Exons	2275..2730, 2276..2680		
Seq. No.	51451	Seq. ID	OJ990821_53.0419.C51
Gene No.	109033	Strand	-
Start	1	End	4581
Name	OJ990821_53.0419.C51.o4.tw	Method	TBLASTX:Wheat
Start	2935	End	3294
GI	none	Score	92
Exons	2935..3111, 2936..3157, 3163..3294		
Seq. No.	51451	Seq. ID	OJ990821_53.0419.C51
Gene No.	109033	Strand	-
Start	1	End	4581
Name	OJ990821_53.0419.C51.o2.gs	Method	GENSCAN
Start	3492	End	4581
GI	none	Score	.58
Exons	3492..3632, 3685..4179, 4342..4581		
Seq. No.	51451	Seq. ID	OJ990821_53.0419.C51
Gene No.	109033	Strand	-
Start	1	End	4581
Name	OJ990821_53.0419.C51.o5.tw	Method	TBLASTX:Wheat
Start	4141	End	4464
GI	none	Score	51
Exons	4141..4464, 4166..4315		
Seq. No.	51452	Seq. ID	OJ990821_53.0419.C52
Gene No.	109034	Strand	-
Start	33	End	136
Name	OJ990821_53.0419.C52.o1.gs	Method	GENSCAN
Start	33	End	136
GI	none	Score	.95
Exons	33..136		
Seq. No.	51453	Seq. ID	OJ990821_53.0419.C53
Gene No.	109035	Strand	-
Start	1	End	595
Name	OJ990821_53.0419.C53.o1.np	Method	AAT/NAP
Start	1	End	595
GI	7248393	Score	237
Exons	1..24, 237..595		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		
Seq. No.	51453	Seq. ID	OJ990821_53.0419.C53
Gene No.	109036	Strand	-
Start	636	End	3096
Name	OJ990821_53.0419.C53.o2.np	Method	AAT/NAP
Start	636	End	2542
GI	5042463	Score	108
Exons	636..717, 769..902, 1562..1780, 2312..2542		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		
Seq. No.	51453	Seq. ID	OJ990821_53.0419.C53
Gene No.	109036	Strand	-

Start	636	End	3096
Name	OJ990821_53.0419.C53.o1.gs	Method	GENSCAN
Start	1993	End	3096
GI	none	Score	.8
Exons	1993..2153, 2434..2566, 2665..3096		

Seq. No.	51454	Seq. ID	OJ990821_53.0419.C54
Gene No.	109037	Strand	-
Start	1	End	2557
Name	OJ990821_53.0419.C54.o1.np	Method	AAT/NAP
Start	1	End	2230
GI	5295955	Score	145
Exons	1..26, 323..437, 922..990, 2184..2230		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	51454	Seq. ID	OJ990821_53.0419.C54
Gene No.	109037	Strand	-
Start	1	End	2557
Name	OJ990821_53.0419.C54.o1.tm	Method	TBLASTX:Maize
Start	1907	End	2443
GI	none	Score	80
Exons	1907..1936, 1934..2161, 2204..2443, 2274..2432		

Seq. No.	51454	Seq. ID	OJ990821_53.0419.C54
Gene No.	109037	Strand	-
Start	1	End	2557
Name	OJ990821_53.0419.C54.o2.np	Method	AAT/NAP
Start	1914	End	2557
GI	7487315	Score	317
Exons	1914..2557		
GI Descrip.	hypothetical protein T22A6.140 - Arabidopsis thaliana gi 5051773 emb CAB45066.1 (AL078637) putative protein [Arabidopsis thaliana] gi 7269281 emb CAB79341.1 (AL161561) putative protein [Arabidopsis thaliana]		

Seq. No.	51455	Seq. ID	OJ990821_53.0419.C56
Gene No.	109038	Strand	+
Start	143	End	1093
Name	OJ990821_53.0419.C56.o1.gs	Method	GENSCAN
Start	143	End	1093
GI	none	Score	.86
Exons	143..1093		

Seq. No.	51456	Seq. ID	OJ990821_53.0419.C57
Gene No.	109039	Strand	+
Start	1	End	716
Name	OJ990821_53.0419.C57.o1.np	Method	AAT/NAP
Start	1	End	713
GI	5902444	Score	533
Exons	1..713		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	51456	Seq. ID	OJ990821_53.0419.C57
Gene No.	109039	Strand	+
Start	1	End	716
Name	OJ990821_53.0419.C57.o1.gs	Method	GENSCAN

Start 51
 GI none
 Exons 51..161, 291..716

End 716
 Score .88

Seq. No. 51456
 Gene No. 109040
 Start 780
 Name OJ990821_53.0419.C57.o1.tw
 Start 78
 GI none
 Exons 78..260, 86..187, 297..533, 308..415, 309..518, 680..844, 681..845

Seq. ID OJ990821_53.0419.C57
 Strand +
 End 1027
 Method TBLASTX:Wheat
 End 845
 Score 143

Seq. No. 51456
 Gene No. 109040
 Start 780
 Name OJ990821_53.0419.C57.o2.np
 Start 780
 GI 5902445
 Exons 780..1027
 GI Descrip. (AB030283) GAG-POL precursor [Oryza sativa]

Seq. ID OJ990821_53.0419.C57
 Strand +
 End 1027
 Method AAT/NAP
 End 1027
 Score 136

Seq. No. 51457
 Gene No. 109041
 Start 735
 Name OJ990821_45.0421.C4.o1.gs
 Start 735
 GI none
 Exons 735..843, 991..1184, 1721..1924

Seq. ID OJ990821_45.0421.C4
 Strand +
 End 1924
 Method GENSCAN
 End 1924
 Score .73

Seq. No. 51457
 Gene No. 109042
 Start 7248
 Name OJ990821_45.0421.C4.o1.np
 Start 7248
 GI 7484861
 Exons 7248..7533
 GI Descrip. cellulose synthase (EC 2.4.1.-) catalytic chain RSW1 - Arabidopsis thaliana gi|2827139|gb|AAC39334.1| (AF027172) cellulose synthase catalytic subunit [Arabidopsis thaliana] gi|4049343|emb|CAA22568.1| (AL034567) cellulose synthase catalytic subunit (RSW1) [Arabidopsis thaliana] gi|7270145|emb|CAB79958.1| (AL161581) cellulose synthase catalytic subunit (RSW1) [Arabidopsis tha

Seq. ID OJ990821_45.0421.C4
 Strand +
 End 7535
 Method AAT/NAP
 End 7533
 Score 271

Seq. No. 51457
 Gene No. 109042
 Start 7248
 Name OJ990821_45.0421.C4.o1.tm
 Start 7248
 GI none
 Exons 7248..7307, 7266..7307, 7350..7535, 7364..7513, 7492..7533

Seq. ID OJ990821_45.0421.C4
 Strand +
 End 7535
 Method TBLASTX:Maize
 End 7535
 Score 68

Seq. No. 51457
 Gene No. 109042
 Start 7248
 Name OJ990821_45.0421.C4.o1.tc

Seq. ID OJ990821_45.0421.C4
 Strand +
 End 7535
 Method TBLASTX:Cress

Start 7266
GI none
Exons 7266..7307, 7371..7535

End 7535
Score 60

Seq. No. 51457
Gene No. 109042
Start 7248
Name OJ990821_45.0421.C4.o1.ts
Start 7266
GI none
Exons 7266..7307, 7370..7513, 7371..7535

Seq. ID OJ990821_45.0421.C4
Strand +
End 7535
Method TBLASTX:Soybean
End 7535
Score 68

Seq. No. 51458
Gene No. 109043
Start 1
Name OJ990821_45.0421.C5.o1.np
Start 1
GI 3135611
Exons 1..133, 224..392, 1027..1293, 1381..1726, 1812..1949, 2045..2170, 2270..2409, 2652..2680

Seq. ID OJ990821_45.0421.C5
Strand +
End 2680
Method AAT/NAP
End 2680
Score 1563

GI Descrip. (AF062485) cellulose synthase [Arabidopsis thaliana]

Seq. No. 51458
Gene No. 109043
Start 1
Name OJ990821_45.0421.C5.o2.tm
Start 21
GI none
Exons 21..131, 22..132, 218..256, 221..283, 222..335, 223..348

Seq. ID OJ990821_45.0421.C5
Strand +
End 2680
Method TBLASTX:Maize
End 348
Score 153

Seq. No. 51458
Gene No. 109043
Start 1
Name OJ990821_45.0421.C5.o1.gs
Start 67
GI none
Exons 67..133, 224..392, 1027..1293, 1381..1687, 1812..1949, 2045..2170, 2270..2416

Seq. ID OJ990821_45.0421.C5
Strand +
End 2680
Method GENSCAN
End 2416
Score .79

Seq. No. 51458
Gene No. 109043
Start 1
Name OJ990821_45.0421.C5.o1.tc
Start 267
GI none
Exons 267..323, 268..327, 1031..1294, 1058..1279, 1376..1726, 1378..1731, 1805..1963, 1806..1964, 1809..1985, 2041..2178, 2044..2175, 2045..2176, 2269..2409, 2270..2407, 2319..2438

Seq. ID OJ990821_45.0421.C5
Strand +
End 2680
Method TBLASTX:Cress
End 2438
Score 88

Seq. No. 51458
Gene No. 109043
Start 1
Name OJ990821_45.0421.C5.o1.gp
Start 339
GI 28113_1.R1084
Exons 339..392, 1027..1293, 1381..1549

Seq. ID OJ990821_45.0421.C5
Strand +
End 2680
Method AAT/GAP
End 1549
Score 916

GI Descrip. '2827141 1.0e-179 (AF027173) cellulose synthase catalytic

subunit [Arabidopsis thaliana] >gi_4914447_emb_CAB43650.1_ (AL050351) cellulose synthase catalytic subunit (Ath-A) [Arabidopsis thaliana]'

Seq. No.	51458	Seq. ID	OJ990821_45.0421.C5
Gene No.	109043	Strand	+
Start	1	End	2680
Name	OJ990821_45.0421.C5.o2.gp	Method	AAT/GAP
Start	1027	End	2183
GI	28113 1.R1084	Score	1457
Exons	1027..1293, 1381..1726, 1812..1949, 2045..2183		
GI Descrip.	'2827141 1.0e-179 (AF027173) cellulose synthase catalytic subunit [Arabidopsis thaliana] >gi_4914447_emb_CAB43650.1_ (AL050351) cellulose synthase catalytic subunit (Ath-A) [Arabidopsis thaliana]'		

Seq. No.	51458	Seq. ID	OJ990821_45.0421.C5
Gene No.	109043	Strand	+
Start	1	End	2680
Name	OJ990821_45.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	1028	End	2409
GI	none	Score	361
Exons	1028..1294, 1061..1294, 1132..1326, 1203..1295, 1376..1726, 1378..1731, 1399..1731, 1805..1963, 1806..1958, 2043..2165, 2044..2169, 2045..2176, 2270..2407, 2272..2409		

Seq. No.	51458	Seq. ID	OJ990821_45.0421.C5
Gene No.	109043	Strand	+
Start	1	End	2680
Name	OJ990821_45.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	1154	End	2432
GI	none	Score	166
Exons	1154..1294, 1154..1285, 1156..1293, 1376..1726, 1378..1731, 1378..1731, 1805..1951, 1806..1958, 1809..1985, 2044..2166, 2045..2176, 2057..2170, 2264..2407, 2270..2407, 2272..2409, 2277..2432, 2295..2408		

Seq. No.	51458	Seq. ID	OJ990821_45.0421.C5
Gene No.	109043	Strand	+
Start	1	End	2680
Name	OJ990821_45.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	1577	End	2167
GI	none	Score	234
Exons	1577..1726, 1600..1731, 1805..1963, 1806..1958, 1809..1976, 2044..2166, 2045..2167		

Seq. No.	51459	Seq. ID	OJ990821_45.0421.C6
Gene No.	109044	Strand	+
Start	1	End	1845
Name	OJ990821_45.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	1195
GI	7484715	Score	1519
Exons	1..101, 185..535, 617..1195		
GI Descrip.	cellulose synthase (EC 2.4.1.-) catalytic chain celA2 - upland cotton (fragment) gi 1706958 gb AAB37767.1 (U58284) cellulose synthase [Gossypium hirsutum]		

Seq. No.	51459	Seq. ID	OJ990821_45.0421.C6
Gene No.	109044	Strand	+
Start	1	End	1845
Name	OJ990821_45.0421.C6.o1.gp	Method	AAT/GAP
Start	7	End	400
GI	uC-osroM202033f11b1	Score	582
Exons	7..101, 185..400		
GI Descrip.	'2827141 2.0e-52 (AF027173) cellulose synthase catalytic subunit [Arabidopsis thaliana] >gi_4914447_emb_CAB43650.1 (AL050351) cellulose synthase catalytic subunit (Ath-A) [Arabidopsis thaliana]'		

Seq. No.	51459	Seq. ID	OJ990821_45.0421.C6
Gene No.	109044	Strand	+
Start	1	End	1845
Name	OJ990821_45.0421.C6.o1.gs	Method	GENSCAN
Start	185	End	1201
GI	none	Score	.76
Exons	185..331, 617..1201		

Seq. No.	51459	Seq. ID	OJ990821_45.0421.C6
Gene No.	109044	Strand	+
Start	1	End	1845
Name	OJ990821_45.0421.C6.o2.gp	Method	AAT/GAP
Start	456	End	1845
GI	15539_1.R1084	Score	2565
Exons	456..535, 617..1845		
GI Descrip.	'1706958 1.0e-98 (U58284) cellulose synthase [Gossypium hirsutum]'		

Seq. No.	51459	Seq. ID	OJ990821_45.0421.C6
Gene No.	109045	Strand	+
Start	5158	End	5240
Name	OJ990821_45.0421.C6.o2.np	Method	AAT/NAP
Start	5158	End	5240
GI	6630699	Score	82
Exons	5158..5240		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	51459	Seq. ID	OJ990821_45.0421.C6
Gene No.	109046	Strand	-
Start	1922	End	5753
Name	OJ990821_45.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	2	End	1220
GI	none	Score	59
Exons	2..100, 2..100, 3..104, 179..547, 184..549, 184..546, 611..820, 614..850, 619..837, 628..858, 636..845, 842..1195, 849..1049, 871..1185, 1038..1220		

Seq. No.	51459	Seq. ID	OJ990821_45.0421.C6
Gene No.	109046	Strand	-
Start	1922	End	5753
Name	OJ990821_45.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	2	End	1303
GI	none	Score	178

Exons 2..100, 3..104, 182..541, 182..535, 349..543, 601..933,
614..1204, 616..1197, 1274..1303, 1277..1303

Seq. No. 51459 Seq. ID OJ990821_45.0421.C6
Gene No. 109046 Strand -
Start 1922 End 5753
Name OJ990821_45.0421.C6.o1.ts Method TBLASTX:Soybean
Start 2 End 1198
GI none Score 60
Exons 2..97, 2..103, 3..104, 182..541, 185..541, 187..549, 349..543,
601..1131, 614..1159, 619..1143, 1160..1198

Seq. No. 51459 Seq. ID OJ990821_45.0421.C6
Gene No. 109046 Strand -
Start 1922 End 5753
Name OJ990821_45.0421.C6.o2.tw Method TBLASTX:Wheat
Start 376 End 583
GI none Score 118
Exons 376..534, 377..583, 379..543

Seq. No. 51459 Seq. ID OJ990821_45.0421.C6
Gene No. 109046 Strand -
Start 1922 End 5753
Name OJ990821_45.0421.C6.o1.tw Method TBLASTX:Wheat
Start 673 End 1078
GI none Score 278
Exons 673..837, 674..850, 842..1075, 845..1078, 865..1077

Seq. No. 51459 Seq. ID OJ990821_45.0421.C6
Gene No. 109046 Strand -
Start 1922 End 5753
Name OJ990821_45.0421.C6.o2.gs Method GENSCAN
Start 1922 End 5753
GI none Score .79
Exons 1922..2032, 2402..2537, 2608..2644, 4668..4938, 5691..5753

Seq. No. 51460 Seq. ID OJ990821_45.0421.C7
Gene No. 109047 Strand +
Start 931 End 1312
Name OJ990821_45.0421.C7.o1.gp Method AAT/GAP
Start 931 End 1312
GI uC-osflcyp033a04b1 Score 675
Exons 931..1312
GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic
DNA, chromosome 1, clone:P0711E10'

Seq. No. 51460 Seq. ID OJ990821_45.0421.C7
Gene No. 109048 Strand +
Start 3799 End 5143
Name OJ990821_45.0421.C7.o3.np Method AAT/NAP
Start 3799 End 5143
GI 6630699 Score 86
Exons 3799..3819, 5065..5143
GI Descrip. (AP000969) hypothetical protein [Oryza sativa]
gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein
[Oryza sativa]

Seq. No.	51460	Seq. ID	OJ990821_45.0421.C7
Gene No.	109049	Strand	+
Start	7014	End	11506
Name	OJ990821_45.0421.C7.o2.gs	Method	GENSCAN
Start	7014	End	11506
GI	none	Score	.52
Exons	7014..7072, 7171..7249, 7543..7630, 8031..8165, 8343..8384, 9142..9227, 9554..9814, 9990..10087, 10182..10264, 11052..11506		

Seq. No.	51460	Seq. ID	OJ990821_45.0421.C7
Gene No.	109050	Strand	+
Start	12086	End	12175
Name	OJ990821_45.0421.C7.o3.gs	Method	GENSCAN
Start	12086	End	12175
GI	none	Score	.72
Exons	12086..12175		

Seq. No.	51460	Seq. ID	OJ990821_45.0421.C7
Gene No.	109051	Strand	-
Start	864	End	7005
Name	OJ990821_45.0421.C7.o1.np	Method	AAT/NAP
Start	864	End	6149
GI	4680186	Score	366
Exons	864..1064, 1903..1952, 4327..4398, 6066..6149		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51460	Seq. ID	OJ990821_45.0421.C7
Gene No.	109051	Strand	-
Start	864	End	7005
Name	OJ990821_45.0421.C7.o2.np	Method	AAT/NAP
Start	2124	End	5004
GI	5922620	Score	512
Exons	2124..2337, 2900..2969, 3672..3920, 4089..4122, 4758..4782, 4828..5004		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6016853 dbj BAA85196.1 (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51460	Seq. ID	OJ990821_45.0421.C7
Gene No.	109051	Strand	-
Start	864	End	7005
Name	OJ990821_45.0421.C7.o4.np	Method	AAT/NAP
Start	5283	End	7005
GI	5922619	Score	87
Exons	5283..5382, 6828..7005		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi 6016852 dbj BAA85195.1 (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	51460	Seq. ID	OJ990821_45.0421.C7
Gene No.	109052	Strand	-
Start	8368	End	12394
Name	OJ990821_45.0421.C7.o5.np	Method	AAT/NAP
Start	8368	End	12394
GI	5777623	Score	1246

Exons 8368..8503, 9945..10204, 11009..11529, 11709..11841,
12090..12276, 12319..12394
GI Descrip. (AJ245900) CAA303711.1 protein [Oryza sativa]

Seq. No.	51461	Seq. ID	OJ990821_45.0421.C8
Gene No.	109053	Strand	+
Start	179	End	363
Name	OJ990821_45.0421.C8.o1.gs	Method	GENSCAN
Start	179	End	363
GI	none	Score	.5
Exons	179..363		

Seq. No.	51461	Seq. ID	OJ990821_45.0421.C8
Gene No.	109054	Strand	-
Start	703	End	1305
Name	OJ990821_45.0421.C8.o2.gs	Method	GENSCAN
Start	703	End	1305
GI	none	Score	.5
Exons	703..837, 1168..1305		

Seq. No.	51462	Seq. ID	OJ990821_45.0421.C9
Gene No.	109055	Strand	+
Start	1209	End	3859
Name	OJ990821_45.0421.C9.o1.gs	Method	GENSCAN
Start	1209	End	3859
GI	none	Score	.68
Exons	1209..1272, 3159..3254, 3316..3486, 3582..3859		

Seq. No.	51462	Seq. ID	OJ990821_45.0421.C9
Gene No.	109056	Strand	+
Start	4194	End	5107
Name	OJ990821_45.0421.C9.o2.gs	Method	GENSCAN
Start	4194	End	5107
GI	none	Score	.82
Exons	4194..4356, 4415..4567, 4971..5107		

Seq. No.	51463	Seq. ID	OJ990821_45.0421.C10
Gene No.	109057	Strand	+
Start	1265	End	3540
Name	OJ990821_45.0421.C10.o1.gs	Method	GENSCAN
Start	1265	End	3540
GI	none	Score	.82
Exons	1265..1373, 3275..3540		

Seq. No.	51463	Seq. ID	OJ990821_45.0421.C10
Gene No.	109058	Strand	+
Start	5304	End	5594
Name	OJ990821_45.0421.C10.o2.gs	Method	GENSCAN
Start	5304	End	5594
GI	none	Score	.93
Exons	5304..5594		

Seq. No.	51464	Seq. ID	OJ990821_45.0421.C11
Gene No.	109059	Strand	+
Start	1088	End	4120
Name	OJ990821_45.0421.C11.o1.gs	Method	GENSCAN
Start	1088	End	4120

GI	none	Score	.53
Exons	1088..1134, 2382..2538, 2755..3163, 3210..3658, 3892..4120		

Seq. No.	51464	Seq. ID	OJ990821_45.0421.C11
Gene No.	109060	Strand	-
Start	138	End	544
Name	OJ990821_45.0421.C11.o1.gp	Method	AAT/GAP
Start	138	End	544
GI	none	Score	797
Exons	138..544		

Seq. No.	51465	Seq. ID	OJ990821_45.0421.C12
Gene No.	109061	Strand	-
Start	665	End	1305
Name	OJ990821_45.0421.C12.o1.gs	Method	GENSCAN
Start	665	End	1305
GI	none	Score	.47
Exons	665..737, 1215..1305		

Seq. No.	51466	Seq. ID	OJ990821_45.0421.C13
Gene No.	109062	Strand	+
Start	160	End	402
Name	OJ990821_45.0421.C13.o1.gs	Method	GENSCAN
Start	160	End	402
GI	none	Score	.73
Exons	160..402		

Seq. No.	51467	Seq. ID	OJ990821_45.0421.C14
Gene No.	109063	Strand	+
Start	212	End	382
Name	OJ990821_45.0421.C14.o1.gs	Method	GENSCAN
Start	212	End	382
GI	none	Score	.4
Exons	212..382		

Seq. No.	51468	Seq. ID	OJ990821_45.0421.C15
Gene No.	109064	Strand	+
Start	57	End	1022
Name	OJ990821_45.0421.C15.o1.gs	Method	GENSCAN
Start	57	End	1022
GI	none	Score	.56
Exons	57..97, 520..593, 925..1022		

Seq. No.	51469	Seq. ID	OJ990821_45.0421.C16
Gene No.	109065	Strand	+
Start	114	End	1475
Name	OJ990821_45.0421.C16.o1.gs	Method	GENSCAN
Start	114	End	1475
GI	none	Score	.59
Exons	114..287, 1385..1475		

Seq. No.	51469	Seq. ID	OJ990821_45.0421.C16
Gene No.	109066	Strand	-
Start	15	End	2795
Name	OJ990821_45.0421.C16.o1.np	Method	AAT/NAP
Start	15	End	2795
GI	6069646	Score	161

Exons 15..76, 1832..2272, 2483..2795
 GI Descrip. (AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No. 51469 Seq. ID OJ990821_45.0421.C16
 Gene No. 109066 Strand -
 Start 15 End 2795
 Name OJ990821_45.0421.C16.o2.tm Method TBLASTX:Maize
 Start 2005 End 2347
 GI none Score 72
 Exons 2005..2220, 2005..2214, 2191..2328, 2247..2339, 2249..2347

Seq. No. 51469 Seq. ID OJ990821_45.0421.C16
 Gene No. 109066 Strand -
 Start 15 End 2795
 Name OJ990821_45.0421.C16.o1.tm Method TBLASTX:Maize
 Start 2348 End 2783
 GI none Score 38
 Exons 2348..2386, 2363..2383, 2393..2473, 2485..2580, 2487..2603, 2586..2678, 2670..2783

Seq. No. 51470 Seq. ID OJ990821_45.0421.C17
 Gene No. 109067 Strand -
 Start 601 End 1656
 Name OJ990821_45.0421.C17.o1.np Method AAT/NAP
 Start 601 End 1656
 GI 4680199 Score 550
 Exons 601..739, 908..1029, 1105..1656
 GI Descrip. (AF114171) hypothetical protein [Sorghum bicolor]

Seq. No. 51470 Seq. ID OJ990821_45.0421.C17
 Gene No. 109067 Strand -
 Start 601 End 1656
 Name OJ990821_45.0421.C17.o2.ts Method TBLASTX:Soybean
 Start 723 End 926
 GI none Score 98
 Exons 723..926, 723..878, 746..925

Seq. No. 51470 Seq. ID OJ990821_45.0421.C17
 Gene No. 109067 Strand -
 Start 601 End 1656
 Name OJ990821_45.0421.C17.o1.tm Method TBLASTX:Maize
 Start 827 End 1351
 GI none Score 96
 Exons 827..1030, 846..1019, 1139..1351, 1146..1241

Seq. No. 51470 Seq. ID OJ990821_45.0421.C17
 Gene No. 109067 Strand -
 Start 601 End 1656
 Name OJ990821_45.0421.C17.o1.ts Method TBLASTX:Soybean
 Start 932 End 1367
 GI none Score 79
 Exons 932..1030, 942..1031, 1103..1252, 1104..1244, 1292..1363, 1293..1367

Seq. No.	51470	Seq. ID	OJ990821_45.0421.C17
Gene No.	109067	Strand	-
Start	601	End	1656
Name	OJ990821_45.0421.C17.o1.tw	Method	TBLASTX:Wheat
Start	1097	End	1456
GI	none	Score	143
Exons	1097..1456, 1103..1456		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109068	Strand	+
Start	77	End	803
Name	OJ990821_45.0421.C21.o1.gs	Method	GENSCAN
Start	77	End	803
GI	none	Score	.41
Exons	77..160, 302..489, 521..803		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109069	Strand	+
Start	8969	End	9285
Name	OJ990821_45.0421.C21.o3.gs	Method	GENSCAN
Start	8969	End	9285
GI	none	Score	.66
Exons	8969..9128, 9161..9285		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109070	Strand	-
Start	1325	End	8210
Name	OJ990821_45.0421.C21.o2.gs	Method	GENSCAN
Start	1325	End	8100
GI	none	Score	.47
Exons	1325..1515, 1717..2261, 5278..5340, 5635..5694, 6246..6364, 7333..7551, 7789..7818, 7909..8100		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109070	Strand	-
Start	1325	End	8210
Name	OJ990821_45.0421.C21.o1.np	Method	AAT/NAP
Start	3340	End	8088
GI	7446121	Score	819
Exons	3340..3410, 3634..3718, 4095..4163, 6245..6323, 6475..6540, 7119..7180, 7330..7551, 7672..7803, 7909..8088		
GI Descrip.	hypothetical protein T19L18.13 - Arabidopsis thaliana gi 3413707 gb AAC31230.1 (AC004747) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109070	Strand	-
Start	1325	End	8210
Name	OJ990821_45.0421.C21.o1.gp	Method	AAT/GAP
Start	7737	End	8210
GI	LIB3434-040-P1-K1-E7	Score	698
Exons	7737..7818, 7909..8210		
GI Descrip.	'3413707 9.0e-21 (AC004747) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
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Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o3.tm	Method	TBLASTX:Maize
Start	1435	End	1657
GI	none	Score	120
Exons	1435..1551, 1445..1552, 1532..1657, 1552..1656		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o2.tc	Method	TBLASTX:Cress
Start	7339	End	8070
GI	none	Score	137
Exons	7339..7425, 7411..7449, 7459..7503, 7459..7548, 7504..7557, 7672..7815, 7673..7816, 7930..7995, 7943..7999, 8008..8070		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o3.ts	Method	TBLASTX:Soybean
Start	7345	End	8070
GI	none	Score	40
Exons	7345..7473, 7444..7548, 7459..7503, 7516..7557, 7673..7705, 7690..7815, 7691..7843, 7936..7998, 7943..7999, 7978..8070		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o4.gs	Method	GENSCAN
Start	13627	End	17293
GI	none	Score	.43
Exons	13627..13986, 14180..14496, 14611..14853, 15280..15765, 15853..17293		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o4.ts	Method	TBLASTX:Soybean
Start	13705	End	13917
GI	none	Score	102
Exons	13705..13917, 13708..13905		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o2.np	Method	AAT/NAP
Start	14126	End	17308
GI	6522592	Score	1689
Exons	14126..14496, 14611..17308		
GI Descrip.	(AL133292) receptor protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o2.ts	Method	TBLASTX:Soybean
Start	14144	End	15104

GI	none	Score	54
Exons	14144..14290, 14148..14294, 14312..14485, 14313..14498, 14654..14863, 14678..14818, 14691..14849, 14918..15103, 14919..15104		
Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o4.tm	Method	TBLASTX:Maize
Start	14153	End	14660
GI	none	Score	104
Exons	14153..14293, 14264..14497, 14349..14498, 14355..14498, 14612..14659, 14613..14660		
Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o1.tc	Method	TBLASTX:Cress
Start	14399	End	17113
GI	none	Score	86
Exons	14399..14497, 14612..14677, 14678..14848, 15434..16027, 15476..15952, 15479..16045, 15480..15788, 15482..16072, 15482..16072, 15482..15676, 15483..15803, 15485..16072, 15485..15889, 15530..16072, 15530..16069, 15543..15749, 15608..16072, 15626..15964, 15789..15821, 15840..16151, 15897..15998, 16058..16180, 16181..16276, 16190..16270, 16193..16255, 16268..16486, 16268..16501, 16310..16501, 16502..16624, 16505..16669, 16511..16777, 16511..16777, 16514..17032, 16514..16774, 16514..16864, 16517..16873, 16943..17038, 17072..17113		
Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o1.tm	Method	TBLASTX:Maize
Start	14672	End	15071
GI	none	Score	118
Exons	14672..14866, 14709..14855, 14903..15070, 14907..15071		
Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o3.tc	Method	TBLASTX:Cress
Start	14930	End	15211
GI	none	Score	135
Exons	14930..15211, 14949..15206		
Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o1.ts	Method	TBLASTX:Soybean
Start	15434	End	17032
GI	none	Score	110
Exons	15434..15529, 15476..16042, 15482..16072, 15483..15803, 15485..16072, 15530..16072, 15552..15800, 15554..15649, 15555..15818, 15773..16153, 15840..16151, 15897..15932, 16190..16270, 16268..16486, 16268..16501, 16310..16495,		

16310..16501, 16502..16681, 16505..16777, 16505..16774,
16511..16873, 16514..16873, 16514..16870, 16871..17032

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o2.tm	Method	TBLASTX:Maize
Start	15468	End	17032
GI	none	Score	55
Exons	15468..15572, 15476..16075, 15482..15952, 15482..15889, 15482..15748, 15485..16045, 15500..15793, 15510..15866, 15615..15722, 15644..16072, 15788..16168, 15915..16154, 15968..16018, 16130..16168, 16184..16252, 16310..16495, 16310..16501, 16502..16777, 16505..16774, 16505..16894, 16535..16870, 16868..16981, 16940..17032		

Seq. No.	51471	Seq. ID	OJ990821_45.0421.C21
Gene No.	109071	Strand	-
Start	13627	End	17308
Name	OJ990821_45.0421.C21.o1.tw	Method	TBLASTX:Wheat
Start	15543	End	17011
GI	none	Score	54
Exons	15543..15686, 15759..15800, 15791..15973, 15918..16115, 15920..16075, 15965..16033, 16136..16564, 16185..16538, 16442..16591, 16604..16777, 16943..17011		

Seq. No.	51472	Seq. ID	OJ990821_45.0421.C22
Gene No.	109072	Strand	+
Start	317	End	430
Name	OJ990821_45.0421.C22.o1.gs	Method	GENSCAN
Start	317	End	430
GI	none	Score	.93
Exons	317..430		

Seq. No.	51472	Seq. ID	OJ990821_45.0421.C22
Gene No.	109073	Strand	+
Start	1524	End	1895
Name	OJ990821_45.0421.C22.o2.gs	Method	GENSCAN
Start	1524	End	1895
GI	none	Score	.78
Exons	1524..1628, 1707..1895		

Seq. No.	51472	Seq. ID	OJ990821_45.0421.C22
Gene No.	109074	Strand	-
Start	3952	End	8120
Name	OJ990821_45.0421.C22.o1.np	Method	AAT/NAP
Start	3952	End	8120
GI	7489738	Score	4384
Exons	3952..7917, 7960..8120		
GI Descrip.	gag-pol polyprotein - maize copia-like retrotransposon Sto-4 gi 4234852 gb AAD12997.1 (AF082133) gag-pol polyprotein [Zea mays]		

Seq. No.	51472	Seq. ID	OJ990821_45.0421.C22
Gene No.	109074	Strand	-
Start	3952	End	8120
Name	OJ990821_45.0421.C22.o5.tm	Method	TBLASTX:Maize

Start	3991	End	4449
GI	none	Score	56
Exons	3991..4182, 4231..4407, 4390..4449		

Seq. No.	51472	Seq. ID	OJ990821_45.0421.C22
Gene No.	109074	Strand	-
Start	3952	End	8120
Name	OJ990821_45.0421.C22.o3.tw	Method	TBLASTX:Wheat
Start	4003	End	4402
GI	none	Score	118
Exons	4003..4398, 4169..4402		

Seq. No.	51472	Seq. ID	OJ990821_45.0421.C22
Gene No.	109074	Strand	-
Start	3952	End	8120
Name	OJ990821_45.0421.C22.o3.ts	Method	TBLASTX:Soybean
Start	4006	End	4572
GI	none	Score	60
Exons	4006..4197, 4186..4377, 4280..4381, 4390..4572		

Seq. No.	51472	Seq. ID	OJ990821_45.0421.C22
Gene No.	109074	Strand	-
Start	3952	End	8120
Name	OJ990821_45.0421.C22.o2.tm	Method	TBLASTX:Maize
Start	4462	End	4893
GI	none	Score	134
Exons	4462..4758, 4463..4663, 4732..4893		

Seq. No.	51472	Seq. ID	OJ990821_45.0421.C22
Gene No.	109074	Strand	-
Start	3952	End	8120
Name	OJ990821_45.0421.C22.o1.tw	Method	TBLASTX:Wheat
Start	4558	End	5338
GI	none	Score	154
Exons	4558..5007, 4562..5008, 4984..5337, 4991..5338, 4993..5337		

Seq. No.	51472	Seq. ID	OJ990821_45.0421.C22
Gene No.	109074	Strand	-
Start	3952	End	8120
Name	OJ990821_45.0421.C22.o3.tm	Method	TBLASTX:Maize
Start	4894	End	5337
GI	none	Score	138
Exons	4894..4995, 5029..5337, 5030..5320		

Seq. No.	51472	Seq. ID	OJ990821_45.0421.C22
Gene No.	109074	Strand	-
Start	3952	End	8120
Name	OJ990821_45.0421.C22.o1.ts	Method	TBLASTX:Soybean
Start	5029	End	5466
GI	5509260	Score	44
Exons	5029..5466, 5030..5062, 5105..5377		
GI Descrip.	-		

Seq. No.	51472	Seq. ID	OJ990821_45.0421.C22
Gene No.	109074	Strand	-
Start	3952	End	8120
Name	OJ990821_45.0421.C22.o1.tc	Method	TBLASTX:Cress

Start 5119
GI none
Exons 5119..5379, 5141..5377

End 5379
Score 116

Seq. No. 51472
Gene No. 109074
Start 3952
Name OJ990821_45.0421.C22.o4.ts
Start 5977
GI none
Exons 5977..6150, 6154..6363, 6182..6361

Seq. ID OJ990821_45.0421.C22
Strand -
End 8120
Method TBLASTX:Soybean
End 6363
Score 77

Seq. No. 51472
Gene No. 109074
Start 3952
Name OJ990821_45.0421.C22.o2.tw
Start 5980
GI none
Exons 5980..6078, 6005..6079, 6058..6363, 6089..6340, 6408..6641, 6409..6456

Seq. ID OJ990821_45.0421.C22
Strand -
End 8120
Method TBLASTX:Wheat
End 6641
Score 35

Seq. No. 51472
Gene No. 109074
Start 3952
Name OJ990821_45.0421.C22.o2.tc
Start 5983
GI none
Exons 5983..6150, 6163..6363

Seq. ID OJ990821_45.0421.C22
Strand -
End 8120
Method TBLASTX:Cress
End 6363
Score 123

Seq. No. 51472
Gene No. 109074
Start 3952
Name OJ990821_45.0421.C22.o4.tm
Start 5986
GI none
Exons 5986..6057, 6065..6148, 6088..6147, 6154..6363, 6256..6315

Seq. ID OJ990821_45.0421.C22
Strand -
End 8120
Method TBLASTX:Maize
End 6363
Score 54

Seq. No. 51472
Gene No. 109074
Start 3952
Name OJ990821_45.0421.C22.o2.ts
Start 6417
GI none
Exons 6417..6803, 6586..6792

Seq. ID OJ990821_45.0421.C22
Strand -
End 8120
Method TBLASTX:Soybean
End 6803
Score 114

Seq. No. 51472
Gene No. 109074
Start 3952
Name OJ990821_45.0421.C22.o4.tw
Start 6660
GI none
Exons 6660..6830, 6900..7097

Seq. ID OJ990821_45.0421.C22
Strand -
End 8120
Method TBLASTX:Wheat
End 7097
Score 107

Seq. No. 51472
Gene No. 109074
Start 3952
Name OJ990821_45.0421.C22.o1.tm

Seq. ID OJ990821_45.0421.C22
Strand -
End 8120
Method TBLASTX:Maize

Start	7081	End	8028
GI	none	Score	51
Exons	7081..7173, 7123..7173, 7278..7409, 7297..7338, 7419..8027, 7449..7703, 7450..8028		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109075	Strand	+
Start	2337	End	10314
Name	OJ990821_45.0421.C23.o1.gs	Method	GENSCAN
Start	2337	End	10152
GI	none	Score	.63
Exons	2337..2405, 3950..4023, 4068..5223, 5241..5627, 5727..6575, 6705..6968, 7185..8478, 8498..9375, 9616..10152		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109075	Strand	+
Start	2337	End	10314
Name	OJ990821_45.0421.C23.o1.np	Method	AAT/NAP
Start	3912	End	10314
GI	7228457	Score	3145
Exons	3912..3935, 4252..4330, 5452..7007, 7062..8709, 8776..10314		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109076	Strand	+
Start	13903	End	17479
Name	OJ990821_45.0421.C23.o3.np	Method	AAT/NAP
Start	13903	End	17479
GI	5852180	Score	653
Exons	13903..13956, 14937..15054, 15106..15532, 17444..17479		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109077	Strand	-
Start	10458	End	14187
Name	OJ990821_45.0421.C23.o2.gs	Method	GENSCAN
Start	10458	End	14008
GI	none	Score	.84
Exons	10458..10540, 10701..10729, 10798..10931, 11006..11194, 11261..11352, 11451..11596, 11733..12494, 12561..12619, 12690..12881, 12949..13073, 13933..14008		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109077	Strand	-
Start	10458	End	14187
Name	OJ990821_45.0421.C23.o2.np	Method	AAT/NAP
Start	11732	End	12945
GI	6721561	Score	1133
Exons	11732..12494, 12561..12619, 12690..12945		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109077	Strand	-
Start	10458	End	14187
Name	OJ990821_45.0421.C23.o1.gp	Method	AAT/GAP
Start	13806	End	14187
GI	uC-osflcyp033a04b1	Score	699
Exons	13806..14187		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o7.tw	Method	TBLASTX:Wheat
Start	5511	End	5909
GI	none	Score	249
Exons	5511..5909, 5525..5563, 5636..5779		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o4.tw	Method	TBLASTX:Wheat
Start	6492	End	6947
GI	none	Score	143
Exons	6492..6674, 6500..6601, 6711..6947, 6713..6829, 6735..6932		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o1.tw	Method	TBLASTX:Wheat
Start	7139	End	7595
GI	none	Score	563
Exons	7139..7594, 7140..7595		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o1.tm	Method	TBLASTX:Maize
Start	7269	End	7625
GI	none	Score	406
Exons	7269..7625, 7310..7612		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o2.tm	Method	TBLASTX:Maize
Start	7652	End	8036
GI	none	Score	326
Exons	7652..7750, 7653..8036, 7814..8035		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o2.tw	Method	TBLASTX:Wheat
Start	7710	End	8134
GI	none	Score	463
Exons	7710..8132, 7750..7866, 7755..8099, 7811..8134		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o1.ts	Method	TBLASTX:Soybean
Start	7764	End	8189
GI	none	Score	313
Exons	7764..8189, 7814..7948		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o6.tw	Method	TBLASTX:Wheat
Start	8279	End	8688
GI	none	Score	157
Exons	8279..8494, 8280..8471, 8470..8505, 8515..8688		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o8.tw	Method	TBLASTX:Wheat
Start	8727	End	9059
GI	none	Score	186
Exons	8727..9059, 8728..8985		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o3.tm	Method	TBLASTX:Maize
Start	9190	End	9495
GI	none	Score	325
Exons	9190..9495, 9207..9494		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o5.tw	Method	TBLASTX:Wheat
Start	9190	End	9573
GI	none	Score	317
Exons	9190..9573, 9198..9506, 9540..9572		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o3.tw	Method	TBLASTX:Wheat
Start	9697	End	10305
GI	none	Score	329
Exons	9697..10149, 9846..9953, 10174..10305, 10179..10304		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o4.tm	Method	TBLASTX:Maize
Start	10021	End	10269
GI	none	Score	138
Exons	10021..10185, 10186..10269		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o3.gs	Method	GENSCAN
Start	15055	End	17277
GI	none	Score	.71
Exons	15055..15189, 15261..15500, 16302..16461, 16574..16765, 16923..17064, 17175..17277		

Seq. No.	51473	Seq. ID	OJ990821_45.0421.C23
Gene No.	109078	Strand	-
Start	15055	End	17277
Name	OJ990821_45.0421.C23.o4.np	Method	AAT/NAP
Start	16324	End	17062
GI	6539586	Score	216
Exons	16324..16521, 16570..17062		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	51474	Seq. ID	OJ990821_45.0421.C24
Gene No.	109079	Strand	+
Start	3728	End	4192
Name	OJ990821_45.0421.C24.o1.np	Method	AAT/NAP
Start	3728	End	4192
GI	119958	Score	396
Exons	3728..4192		
GI Descrip.	FERREDOXIN III PRECURSOR (FD III) gi 168473 (M73831) ferredoxin [Zea mays] gi 1864001 dbj BAA19251 (AB001387) Fd III [Zea mays] gi 444686 prf 1907324C ferredoxin:ISOTYPE=III [Zea mays]		

Seq. No.	51474	Seq. ID	OJ990821_45.0421.C24
Gene No.	109080	Strand	+
Start	10433	End	10762
Name	OJ990821_45.0421.C24.o2.np	Method	AAT/NAP
Start	10433	End	10762
GI	730583	Score	277
Exons	10433..10762		
GI Descrip.	60S ACIDIC RIBOSOMAL PROTEIN P2 gi 551267 emb CAA55047 (X78213) 60s acidic ribosomal protein P2 [Parthenium argentatum]		

Seq. No.	51474	Seq. ID	OJ990821_45.0421.C24
Gene No.	109081	Strand	-
Start	10029	End	10823
Name	OJ990821_45.0421.C24.o1.tc	Method	TBLASTX:Cress
Start	3713	End	4189
GI	none	Score	62
Exons	3713..3937, 3940..4185, 3941..4189		

Seq. No.	51474	Seq. ID	OJ990821_45.0421.C24
Gene No.	109081	Strand	-
Start	10029	End	10823
Name	OJ990821_45.0421.C24.o1.tm	Method	TBLASTX:Maize
Start	3877	End	4208
GI	none	Score	402
Exons	3877..4191, 3878..4177, 4104..4208, 4105..4194		

Seq. No.	51474	Seq. ID	OJ990821_45.0421.C24
Gene No.	109081	Strand	-

Start	10029	End	10823
Name	OJ990821_45.0421.C24.o1.tw	Method	TBLASTX:Wheat
Start	3884	End	4189
GI	none	Score	251
Exons	3884..4018, 3889..4119, 3890..4120, 4102..4164, 4103..4189		

Seq. No.	51474	Seq. ID	OJ990821_45.0421.C24
Gene No.	109081	Strand	-
Start	10029	End	10823
Name	OJ990821_45.0421.C24.o1.ts	Method	TBLASTX:Soybean
Start	3889	End	4189
GI	none	Score	347
Exons	3889..4185, 3890..4189		

Seq. No.	51474	Seq. ID	OJ990821_45.0421.C24
Gene No.	109081	Strand	-
Start	10029	End	10823
Name	OJ990821_45.0421.C24.o2.gs	Method	GENSCAN
Start	10029	End	10823
GI	none	Score	.46
Exons	10029..10217, 10454..10823		

Seq. No.	51474	Seq. ID	OJ990821_45.0421.C24
Gene No.	109081	Strand	-
Start	10029	End	10823
Name	OJ990821_45.0421.C24.o2.tm	Method	TBLASTX:Maize
Start	10429	End	10765
GI	none	Score	188
Exons	10429..10611, 10430..10621, 10625..10765		

Seq. No.	51474	Seq. ID	OJ990821_45.0421.C24
Gene No.	109081	Strand	-
Start	10029	End	10823
Name	OJ990821_45.0421.C24.o2.ts	Method	TBLASTX:Soybean
Start	10429	End	10621
GI	none	Score	184
Exons	10429..10611, 10433..10621		

Seq. No.	51475	Seq. ID	OJ990821_45.0421.C25
Gene No.	109082	Strand	+
Start	262	End	3869
Name	OJ990821_45.0421.C25.o1.gs	Method	GENSCAN
Start	262	End	3869
GI	none	Score	.44
Exons	262..320, 505..564, 1762..1866, 2457..2573, 2991..3204, 3710..3869		

Seq. No.	51475	Seq. ID	OJ990821_45.0421.C25
Gene No.	109083	Strand	+
Start	3800	End	7199
Name	OJ990821_45.0421.C25.o1.np	Method	AAT/NAP
Start	3800	End	7199
GI	5852181	Score	124
Exons	3800..3831, 7055..7199		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	51476	Seq. ID	OJ990821_41.0421.C4
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Gene No.	109084	Strand	-
Start	1	End	1378
Name	OJ990821_41.0421.C4.o1.np	Method	AAT/NAP
Start	1	End	1378
GI	6691191	Score	242
Exons	1..69, 778..1378		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	51476	Seq. ID	OJ990821_41.0421.C4
Gene No.	109084	Strand	-
Start	1	End	1378
Name	OJ990821_41.0421.C4.o1.tw	Method	TBLASTX:Wheat
Start	967	End	1313
GI	none	Score	83
Exons	967..1179, 1221..1313		

Seq. No.	51477	Seq. ID	OJ990821_41.0421.C5
Gene No.	109085	Strand	-
Start	84	End	328
Name	OJ990821_41.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	84	End	328
GI	none	Score	71
Exons	84..227, 85..228, 236..328		

Seq. No.	51478	Seq. ID	OJ990821_41.0421.C6
Gene No.	109086	Strand	-
Start	208	End	632
Name	OJ990821_41.0421.C6.o1.gs	Method	GENSCAN
Start	208	End	632
GI	none	Score	.7
Exons	208..311, 463..632		

Seq. No.	51479	Seq. ID	OJ990821_41.0421.C7
Gene No.	109087	Strand	-
Start	59	End	184
Name	OJ990821_41.0421.C7.o1.gs	Method	GENSCAN
Start	59	End	184
GI	none	Score	.57
Exons	59..184		

Seq. No.	51480	Seq. ID	OJ990821_41.0421.C9
Gene No.	109088	Strand	-
Start	1	End	502
Name	OJ990821_41.0421.C9.o1.np	Method	AAT/NAP
Start	1	End	502
GI	7228450	Score	219
Exons	1..74, 160..283, 417..502		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	51481	Seq. ID	OJ990821_41.0421.C10
Gene No.	109089	Strand	+
Start	529	End	2849
Name	OJ990821_41.0421.C10.o1.gs	Method	GENSCAN
Start	529	End	2849
GI	none	Score	.44
Exons	529..682, 1914..2376, 2454..2566, 2836..2849		

Seq. No.	51482	Seq. ID	OJ990821_41.0421.C13
Gene No.	109090	Strand	+
Start	254	End	817
Name	OJ990821_41.0421.C13.o1.gs	Method	GENSCAN
Start	254	End	817
GI	none	Score	.5
Exons	254..306, 445..817		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109091	Strand	+
Start	1	End	10206
Name	OJ990821_41.0421.C15.o1.np	Method	AAT/NAP
Start	1	End	4095
GI	4680179	Score	6643
Exons	1..4095		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109091	Strand	+
Start	1	End	10206
Name	OJ990821_41.0421.C15.o1.gs	Method	GENSCAN
Start	49	End	8628
GI	none	Score	.67
Exons	49..421, 431..731, 969..1204, 1240..1536, 1576..2219, 2232..2786, 2846..3078, 3122..3558, 4928..5040, 5133..5464, 5764..5832, 6931..7037, 7834..8628		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109091	Strand	+
Start	1	End	10206
Name	OJ990821_41.0421.C15.o2.np	Method	AAT/NAP
Start	4684	End	9707
GI	7340881	Score	475
Exons	4684..4771, 4918..5054, 5147..5485, 6870..7037, 7143..7175, 9687..9707		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109091	Strand	+
Start	1	End	10206
Name	OJ990821_41.0421.C15.o3.np	Method	AAT/NAP
Start	4835	End	8606
GI	4539665	Score	1553
Exons	4835..4887, 7155..8606		
GI Descrip.	(AF061282) polyprotein [Sorghum bicolor]		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109091	Strand	+
Start	1	End	10206
Name	OJ990821_41.0421.C15.o4.np	Method	AAT/NAP
Start	9308	End	10206
GI	5852178	Score	422
Exons	9308..9613, 9645..9748, 10111..10206		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-

Start 9380
Name OJ990821_41.0421.C15.o8.tw
Start 38
GI none
Exons 38..337, 43..249, 308..403

End 12304
Method TBLASTX:Wheat
End 403
Score 260

Seq. No. 51483
Gene No. 109092
Start 9380
Name OJ990821_41.0421.C15.o6.tm
Start 41
GI none
Exons 41..337, 41..325, 58..228

Seq. ID OJ990821_41.0421.C15
Strand -
End 12304
Method TBLASTX:Maize
End 337
Score 212

Seq. No. 51483
Gene No. 109092
Start 9380
Name OJ990821_41.0421.C15.o7.tw
Start 680
GI none
Exons 680..886, 683..796, 730..828,

Seq. ID OJ990821_41.0421.C15
Strand -
End 12304
Method TBLASTX:Wheat
End 1096
Score 150
911..1096, 931..1095

Seq. No. 51483
Gene No. 109092
Start 9380
Name OJ990821_41.0421.C15.o4.tw
Start 1258
GI none
Exons 1258..1740, 1362..1736

Seq. ID OJ990821_41.0421.C15
Strand -
End 12304
Method TBLASTX:Wheat
End 1740
Score 530

Seq. No. 51483
Gene No. 109092
Start 9380
Name OJ990821_41.0421.C15.o5.tm
Start 1270
GI none
Exons 1270..1557, 1368..1556

Seq. ID OJ990821_41.0421.C15
Strand -
End 12304
Method TBLASTX:Maize
End 1557
Score 314

Seq. No. 51483
Gene No. 109092
Start 9380
Name OJ990821_41.0421.C15.o4.tm
Start 1627
GI none
Exons 1627..1806, 1792..2127, 1878..2009, 2034..2111

Seq. ID OJ990821_41.0421.C15
Strand -
End 12304
Method TBLASTX:Maize
End 2127
Score 155

Seq. No. 51483
Gene No. 109092
Start 9380
Name OJ990821_41.0421.C15.o1.ts
Start 1681
GI none
Exons 1681..1713, 1681..1725, 1717..2076, 1812..2075

Seq. ID OJ990821_41.0421.C15
Strand -
End 12304
Method TBLASTX:Soybean
End 2076
Score 57

Seq. No. 51483
Gene No. 109092
Start 9380

Seq. ID OJ990821_41.0421.C15
Strand -
End 12304

Name	OJ990821_41.0421.C15.o5.tw	Method	TBLASTX:Wheat
Start	1789	End	2058
GI	none	Score	344
Exons	1789..2058, 1790..1870, 1809..2057		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-
Start	9380	End	12304
Name	OJ990821_41.0421.C15.o2.tw	Method	TBLASTX:Wheat
Start	2061	End	2477
GI	none	Score	589
Exons	2061..2435, 2062..2475, 2112..2477, 2137..2475		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-
Start	9380	End	12304
Name	OJ990821_41.0421.C15.o3.ts	Method	TBLASTX:Soybean
Start	2098	End	2343
GI	none	Score	192
Exons	2098..2343		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-
Start	9380	End	12304
Name	OJ990821_41.0421.C15.o2.tm	Method	TBLASTX:Maize
Start	2164	End	2522
GI	none	Score	464
Exons	2164..2517, 2166..2432, 2218..2505, 2325..2522		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-
Start	9380	End	12304
Name	OJ990821_41.0421.C15.o3.tw	Method	TBLASTX:Wheat
Start	2556	End	7616
GI	none	Score	512
Exons	2556..2783, 2605..3084, 2638..3051, 2829..3083, 7172..7615, 7240..7308, 7360..7611, 7470..7616		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-
Start	9380	End	12304
Name	OJ990821_41.0421.C15.o2.ts	Method	TBLASTX:Soybean
Start	2872	End	7663
GI	none	Score	284
Exons	2872..3132, 2877..3131, 7414..7662, 7415..7663		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-
Start	9380	End	12304
Name	OJ990821_41.0421.C15.o3.tm	Method	TBLASTX:Maize
Start	2931	End	7753
GI	none	Score	374
Exons	2931..3218, 2932..3222, 7461..7565, 7462..7749, 7463..7753		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-
Start	9380	End	12304

Name	OJ990821_41.0421.C15.o1.tw	Method	TBLASTX:Wheat
Start	3091	End	8247
GI	none	Score	716
Exons	3091..3717, 3093..3497, 3235..3672, 3594..3716, 7622..7825, 7678..7821, 7821..8126, 7828..8247, 7828..8205, 8187..8246		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-
Start	9380	End	12304
Name	OJ990821_41.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	3271	End	8385
GI	none	Score	215
Exons	3271..3432, 3273..3425, 3290..3427, 3425..3490, 3429..3731, 3429..3491, 3430..3858, 3597..3857, 7827..7955, 7828..7962, 7959..8123, 7960..8385, 8080..8364, 8187..8384		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-
Start	9380	End	12304
Name	OJ990821_41.0421.C15.o6.tw	Method	TBLASTX:Wheat
Start	3717	End	8568
GI	none	Score	319
Exons	3717..3788, 3718..4050, 3810..3899, 3996..4049, 8247..8516, 8248..8568		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-
Start	9380	End	12304
Name	OJ990821_41.0421.C15.o2.gs	Method	GENSCAN
Start	9380	End	12304
GI	none	Score	.68
Exons	9380..9506, 9680..9883, 12241..12304		

Seq. No.	51483	Seq. ID	OJ990821_41.0421.C15
Gene No.	109092	Strand	-
Start	9380	End	12304
Name	OJ990821_41.0421.C15.o5.np	Method	AAT/NAP
Start	11852	End	12044
GI	5042463	Score	105
Exons	11852..12044		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	51484	Seq. ID	OJ990821_41.0421.C16
Gene No.	109093	Strand	+
Start	307	End	899
Name	OJ990821_41.0421.C16.o1.gs	Method	GENSCAN
Start	307	End	899
GI	none	Score	.55
Exons	307..541, 558..824, 838..899		

Seq. No.	51485	Seq. ID	OJ990821_41.0421.C19
Gene No.	109094	Strand	+
Start	480	End	610
Name	OJ990821_41.0421.C19.o1.gs	Method	GENSCAN
Start	480	End	610
GI	none	Score	.9
Exons	480..610		

Seq. No.	51486	Seq. ID	OJ990821_41.0421.C20
Gene No.	109095	Strand	+
Start	11918	End	12027
Name	OJ990821_41.0421.C20.o2.gp	Method	AAT/GAP
Start	11918	End	12027
GI	uC-osflcyp088b12b1	Score	160
Exons	11918..12027		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	51486	Seq. ID	OJ990821_41.0421.C20
Gene No.	109096	Strand	+
Start	12578	End	12671
Name	OJ990821_41.0421.C20.o2.np	Method	AAT/NAP
Start	12578	End	12671
GI	7363272	Score	92
Exons	12578..12671		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	51486	Seq. ID	OJ990821_41.0421.C20
Gene No.	109097	Strand	-
Start	53	End	12181
Name	OJ990821_41.0421.C20.o1.gs	Method	GENSCAN
Start	53	End	12181
GI	none	Score	.53
Exons	53..234, 308..559, 1133..1257, 2127..2160, 2537..2638, 2983..3101, 3509..3645, 7955..8078, 8189..8599, 9030..9155, 10585..10709, 10828..10958, 10964..11114, 11434..11600, 12111..12181		

Seq. No.	51486	Seq. ID	OJ990821_41.0421.C20
Gene No.	109097	Strand	-
Start	53	End	12181
Name	OJ990821_41.0421.C20.o1.np	Method	AAT/NAP
Start	2219	End	9296
GI	6523547	Score	387
Exons	2219..2262, 8088..9296		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	51486	Seq. ID	OJ990821_41.0421.C20
Gene No.	109097	Strand	-
Start	53	End	12181
Name	OJ990821_41.0421.C20.o1.gp	Method	AAT/GAP
Start	6372	End	6479
GI	uC-osflcyp088b12b1	Score	148
Exons	6372..6479		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	51487	Seq. ID	OJ990821_41.0421.C21
Gene No.	109098	Strand	-
Start	1352	End	1710
Name	OJ990821_41.0421.C21.o1.np	Method	AAT/NAP
Start	1352	End	1710
GI	7242910	Score	84

Exons 1352..1435, 1494..1710
GI Descrip. (AP001383) hypothetical protein [Oryza sativa]

Seq. No.	51488	Seq. ID	OJ990821_41.0421.C22
Gene No.	109099	Strand	+
Start	6954	End	9616
Name	OJ990821_41.0421.C22.o3.gs	Method	GENSCAN
Start	6954	End	9616
GI	none	Score	.78
Exons	6954..7152, 9501..9616		

Seq. No.	51488	Seq. ID	OJ990821_41.0421.C22
Gene No.	109100	Strand	-
Start	5250	End	6666
Name	OJ990821_41.0421.C22.o2.gs	Method	GENSCAN
Start	5250	End	6666
GI	none	Score	.58
Exons	5250..5396, 5752..5889, 6430..6666		

Seq. No.	51489	Seq. ID	OJ990821_41.0421.C23
Gene No.	109101	Strand	+
Start	1	End	6836
Name	OJ990821_41.0421.C23.o1.np	Method	AAT/NAP
Start	1	End	6836
GI	4680179	Score	415
Exons	1..189, 4253..4427, 6792..6836		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51489	Seq. ID	OJ990821_41.0421.C23
Gene No.	109101	Strand	+
Start	1	End	6836
Name	OJ990821_41.0421.C23.o1.gs	Method	GENSCAN
Start	1403	End	5854
GI	none	Score	.66
Exons	1403..1479, 1609..1798, 2152..2298, 3314..3389, 3602..3632, 4736..4816, 5243..5356, 5449..5854		

Seq. No.	51489	Seq. ID	OJ990821_41.0421.C23
Gene No.	109101	Strand	+
Start	1	End	6836
Name	OJ990821_41.0421.C23.o1.gp	Method	AAT/GAP
Start	3398	End	3768
GI	3106852	Score	599
Exons	3398..3768		
GI Descrip.	4521194/dbj AB013613.1 AB013613 1.0e-25 Oryza sativa DNA, centromere sequence RCB11		

Seq. No.	51489	Seq. ID	OJ990821_41.0421.C23
Gene No.	109101	Strand	+
Start	1	End	6836
Name	OJ990821_41.0421.C23.o2.gp	Method	AAT/GAP
Start	3867	End	4232
GI	2309880	Score	655
Exons	3867..4232		
GI Descrip.	4521194/dbj AB013613.1 AB013613 3.0e-60 Oryza sativa DNA, centromere sequence RCB11		

Seq. No.	51489	Seq. ID	OJ990821_41.0421.C23
Gene No.	109101	Strand	+
Start	1	End	6836
Name	OJ990821_41.0421.C23.o2.np	Method	AAT/NAP
Start	4999	End	6836
GI	7340881	Score	383
Exons	4999..5086, 5233..5394, 5543..5901, 6780..6836		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51489	Seq. ID	OJ990821_41.0421.C23
Gene No.	109101	Strand	+
Start	1	End	6836
Name	OJ990821_41.0421.C23.o4.np	Method	AAT/NAP
Start	6676	End	6836
GI	6721561	Score	140
Exons	6676..6836		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51489	Seq. ID	OJ990821_41.0421.C23
Gene No.	109102	Strand	-
Start	6069	End	6200
Name	OJ990821_41.0421.C23.o2.gs	Method	GENSCAN
Start	6069	End	6200
GI	none	Score	.67
Exons	6069..6200		

Seq. No.	51489	Seq. ID	OJ990821_41.0421.C23
Gene No.	109103	Strand	-
Start	6554	End	6836
Name	OJ990821_41.0421.C23.o1.tm	Method	TBLASTX:Maize
Start	2	End	190
GI	none	Score	69
Exons	2..43, 37..189, 52..189, 86..190		

Seq. No.	51489	Seq. ID	OJ990821_41.0421.C23
Gene No.	109103	Strand	-
Start	6554	End	6836
Name	OJ990821_41.0421.C23.o1.tw	Method	TBLASTX:Wheat
Start	2	End	4297
GI	none	Score	69
Exons	2..43, 2..43, 37..189, 52..189, 4247..4297		

Seq. No.	51489	Seq. ID	OJ990821_41.0421.C23
Gene No.	109103	Strand	-
Start	6554	End	6836
Name	OJ990821_41.0421.C23.o3.np	Method	AAT/NAP
Start	6554	End	6836
GI	4680183	Score	124
Exons	6554..6645, 6775..6836		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	51490	Seq. ID	OJ990821_41.0421.C24
Gene No.	109104	Strand	+

Start	1	End	1670
Name	OJ990821_41.0421.C24.o1.np	Method	AAT/NAP
Start	1	End	1670
GI	7340881	Score	150
Exons	1..113, 219..249, 1627..1670		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51490	Seq. ID	OJ990821_41.0421.C24
Gene No.	109104	Strand	+
Start	1	End	1670
Name	OJ990821_41.0421.C24.o1.gs	Method	GENSCAN
Start	745	End	1657
GI	none	Score	.52
Exons	745..1657		

Seq. No.	51490	Seq. ID	OJ990821_41.0421.C24
Gene No.	109104	Strand	+
Start	1	End	1670
Name	OJ990821_41.0421.C24.o2.np	Method	AAT/NAP
Start	811	End	1668
GI	5042448	Score	1370
Exons	811..1668		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	51491	Seq. ID	OJ990821_41.0421.C26
Gene No.	109105	Strand	+
Start	1	End	1306
Name	OJ990821_41.0421.C26.o1.np	Method	AAT/NAP
Start	1	End	1300
GI	4544372	Score	549
Exons	1..1300		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	51491	Seq. ID	OJ990821_41.0421.C26
Gene No.	109105	Strand	+
Start	1	End	1306
Name	OJ990821_41.0421.C26.o1.tm	Method	TBLASTX:Maize
Start	317	End	697
GI	none	Score	63
Exons	317..475, 473..697		

Seq. No.	51491	Seq. ID	OJ990821_41.0421.C26
Gene No.	109105	Strand	+
Start	1	End	1306
Name	OJ990821_41.0421.C26.o2.ts	Method	TBLASTX:Soybean
Start	320	End	718
GI	none	Score	206
Exons	320..718, 424..540		

Seq. No.	51491	Seq. ID	OJ990821_41.0421.C26
Gene No.	109105	Strand	+
Start	1	End	1306
Name	OJ990821_41.0421.C26.o1.tw	Method	TBLASTX:Wheat
Start	878	End	1285
GI	none	Score	206

Exons 878..1285, 886..1251

Seq. No.	51491	Seq. ID	OJ990821_41.0421.C26
Gene No.	109105	Strand	+
Start	1	End	1306
Name	OJ990821_41.0421.C26.o1.ts	Method	TBLASTX:Soybean
Start	1061	End	1306
GI	none	Score	227
Exons	1061..1306, 1063..1200, 1273..1302		

Seq. No.	51492	Seq. ID	OJ990821_41.0421.C27
Gene No.	109106	Strand	-
Start	91	End	5664
Name	OJ990821_41.0421.C27.o1.gs	Method	GENSCAN
Start	91	End	4881
GI	none	Score	.63
Exons	91..220, 244..399, 481..594, 663..722, 798..1010, 1038..1203, 1393..1800, 1888..2767, 2881..2978, 3311..3437, 4022..4224, 4367..4881		

Seq. No.	51492	Seq. ID	OJ990821_41.0421.C27
Gene No.	109106	Strand	-
Start	91	End	5664
Name	OJ990821_41.0421.C27.o1.np	Method	AAT/NAP
Start	4382	End	5664
GI	5852179	Score	275
Exons	4382..4559, 4617..4817, 5644..5664		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	51493	Seq. ID	OJ990821_41.0421.C28
Gene No.	109107	Strand	+
Start	762	End	2303
Name	OJ990821_41.0421.C28.o1.np	Method	AAT/NAP
Start	762	End	2303
GI	7248392	Score	166
Exons	762..878, 1533..1926, 2172..2303		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	51493	Seq. ID	OJ990821_41.0421.C28
Gene No.	109108	Strand	-
Start	1365	End	2385
Name	OJ990821_41.0421.C28.o1.gs	Method	GENSCAN
Start	1365	End	2385
GI	none	Score	.9
Exons	1365..1478, 1663..1779, 1874..2086, 2125..2385		

Seq. No.	51493	Seq. ID	OJ990821_41.0421.C28
Gene No.	109109	Strand	-
Start	5135	End	5539
Name	OJ990821_41.0421.C28.o2.tm	Method	TBLASTX:Maize
Start	4465	End	4719
GI	none	Score	97
Exons	4465..4614, 4466..4564, 4654..4719		

Seq. No.	51493	Seq. ID	OJ990821_41.0421.C28
Gene No.	109109	Strand	-
Start	5135	End	5539

Name	OJ990821_41.0421.C28.o1.tm	Method	TBLASTX:Maize
Start	5054	End	5358
GI	none	Score	72
Exons	5054..5182, 5121..5183, 5165..5266, 5252..5341, 5263..5358		

Seq. No.	51493	Seq. ID	OJ990821_41.0421.C28
Gene No.	109109	Strand	-
Start	5135	End	5539
Name	OJ990821_41.0421.C28.o2.np	Method	AAT/NAP
Start	5135	End	5539
GI	7489553	Score	487
Exons	5135..5539		
GI Descrip.	probable reverse transcriptase - rice (fragment) gi 2462640 emb CAA73800.1 (Y13370) reverse transcriptase [Oryza sativa]		

Seq. No.	51494	Seq. ID	OJ990821_41.0421.C31
Gene No.	109110	Strand	-
Start	436	End	580
Name	OJ990821_41.0421.C31.o1.gs	Method	GENSCAN
Start	436	End	580
GI	none	Score	.56
Exons	436..580		

Seq. No.	51495	Seq. ID	OJ990821_41.0421.C32
Gene No.	109111	Strand	+
Start	494	End	1113
Name	OJ990821_41.0421.C32.o1.gs	Method	GENSCAN
Start	494	End	1022
GI	none	Score	.71
Exons	494..553, 721..1022		

Seq. No.	51495	Seq. ID	OJ990821_41.0421.C32
Gene No.	109111	Strand	+
Start	494	End	1113
Name	OJ990821_41.0421.C32.o1.np	Method	AAT/NAP
Start	494	End	1113
GI	2498930	Score	691
Exons	494..553, 721..1113		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	51496	Seq. ID	OJ990821_41.0421.C33
Gene No.	109112	Strand	-
Start	1	End	2500
Name	OJ990821_41.0421.C33.o1.np	Method	AAT/NAP
Start	1	End	2301
GI	5032159	Score	124
Exons	1..95, 175..314, 2203..2301		
GI Descrip.	transducin (beta)-like 1 gi 3021409 emb CAA73319.1 (Y12781) transducin (beta) like 1 protein [Homo sapiens]		

Seq. No.	51496	Seq. ID	OJ990821_41.0421.C33
Gene No.	109112	Strand	-
Start	1	End	2500
Name	OJ990821_41.0421.C33.o1.gs	Method	GENSCAN
Start	169	End	2500

GI	none	Score	.51
Exons	169..314, 2203..2500		
Seq. No.	51496	Seq. ID	OJ990821_41.0421.C33
Gene No.	109113	Strand	-
Start	3030	End	3272
Name	OJ990821_41.0421.C33.o1.tc	Method	TBLASTX:Cress
Start	9	End	2263
GI	none	Score	105
Exons	9..104, 175..306, 178..315, 182..316, 195..317, 2183..2263, 2184..2252		

Seq. No.	51496	Seq. ID	OJ990821_41.0421.C33
Gene No.	109113	Strand	-
Start	3030	End	3272
Name	OJ990821_41.0421.C33.o1.ts	Method	TBLASTX:Soybean
Start	24	End	2263
GI	none	Score	115
Exons	24..92, 178..315, 182..316, 2183..2263		

Seq. No.	51496	Seq. ID	OJ990821_41.0421.C33
Gene No.	109113	Strand	-
Start	3030	End	3272
Name	OJ990821_41.0421.C33.o2.np	Method	AAT/NAP
Start	3030	End	3272
GI	4585985	Score	80
Exons	3030..3272		
GI Descrip.	(AC005287) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51497	Seq. ID	OJ990821_41.0421.C34
Gene No.	109114	Strand	+
Start	1132	End	2369
Name	OJ990821_41.0421.C34.o1.gs	Method	GENSCAN
Start	1132	End	2369
GI	none	Score	.63
Exons	1132..1265, 1508..1538, 1585..1601, 2165..2369		

Seq. No.	51497	Seq. ID	OJ990821_41.0421.C34
Gene No.	109115	Strand	+
Start	5440	End	8499
Name	OJ990821_41.0421.C34.o2.np	Method	AAT/NAP
Start	5440	End	8499
GI	7340881	Score	382
Exons	5440..5528, 5675..5798, 5891..5929, 5986..6350, 7787..7893, 7999..8211, 8465..8499		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51497	Seq. ID	OJ990821_41.0421.C34
Gene No.	109116	Strand	-
Start	3954	End	4117
Name	OJ990821_41.0421.C34.o1.np	Method	AAT/NAP
Start	3954	End	4117
GI	7340884	Score	108
Exons	3954..4117		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	51498	Seq. ID	OJ990821_41.0421.C35
Gene No.	109117	Strand	+
Start	194	End	1077
Name	OJ990821_41.0421.C35.o1.gs	Method	GENSCAN
Start	194	End	1077
GI	none	Score	.87
Exons	194..373, 446..595, 1005..1077		

Seq. No.	51499	Seq. ID	OJ990821_41.0421.C38
Gene No.	109118	Strand	-
Start	1	End	1961
Name	OJ990821_41.0421.C38.o1.np	Method	AAT/NAP
Start	1	End	1961
GI	7248394	Score	1480
Exons	1..1218, 1474..1961		
GI Descrip.	(AP001389) ESTs C97394(C60113), AU075824(R0165), D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	51499	Seq. ID	OJ990821_41.0421.C38
Gene No.	109118	Strand	-
Start	1	End	1961
Name	OJ990821_41.0421.C38.o2.ts	Method	TBLASTX:Soybean
Start	1	End	313
GI	none	Score	68
Exons	1..126, 3..131, 176..313, 180..305		

Seq. No.	51499	Seq. ID	OJ990821_41.0421.C38
Gene No.	109118	Strand	-
Start	1	End	1961
Name	OJ990821_41.0421.C38.o1.gs	Method	GENSCAN
Start	83	End	1744
GI	none	Score	.79
Exons	83..1744		

Seq. No.	51499	Seq. ID	OJ990821_41.0421.C38
Gene No.	109118	Strand	-
Start	1	End	1961
Name	OJ990821_41.0421.C38.o1.ts	Method	TBLASTX:Soybean
Start	464	End	934
GI	none	Score	82
Exons	464..652, 477..608, 653..934, 672..896		

Seq. No.	51499	Seq. ID	OJ990821_41.0421.C38
Gene No.	109118	Strand	-
Start	1	End	1961
Name	OJ990821_41.0421.C38.o2.tw	Method	TBLASTX:Wheat
Start	551	End	932
GI	none	Score	114
Exons	551..652, 614..931, 618..932		

Seq. No.	51499	Seq. ID	OJ990821_41.0421.C38
Gene No.	109118	Strand	-
Start	1	End	1961
Name	OJ990821_41.0421.C38.o1.tm	Method	TBLASTX:Maize

Start 620
 GI none
 Exons 620..1081, 621..932, 776..1081

End 1081
 Score 225

Seq. No. 51499
 Gene No. 109118
 Start 1
 Name OJ990821_41.0421.C38.o1.tw
 Start 969
 GI none
 Exons 969..1064, 971..1303, 993..1295, 1201..1305, 1298..1354, 1308..1349

Seq. ID OJ990821_41.0421.C38
 Strand -
 End 1961
 Method TBLASTX:Wheat
 End 1354
 Score 294

Seq. No. 51499
 Gene No. 109118
 Start 1
 Name OJ990821_41.0421.C38.o2.tm
 Start 1082
 GI none
 Exons 1082..1300, 1083..1295

Seq. ID OJ990821_41.0421.C38
 Strand -
 End 1961
 Method TBLASTX:Maize
 End 1300
 Score 207

Seq. No. 51500
 Gene No. 109119
 Start 104
 Name OJ990821_41.0421.C39.o1.gs
 Start 104
 GI none
 Exons 104..241

Seq. ID OJ990821_41.0421.C39
 Strand +
 End 241
 Method GENSCAN
 End 241
 Score .72

Seq. No. 51501
 Gene No. 109120
 Start 1
 Name OJ990821_42.0421.C1.o1.np
 Start 1
 GI 629693
 Exons 1..749

Seq. ID OJ990821_42.0421.C1
 Strand +
 End 749
 Method AAT/NAP
 End 749
 Score 320

GI Descrip. probable integrase - common tobacco (fragment)
 gi|530742|emb|CAA56791| (X80830) integrase [Nicotiana tabacum]

Seq. No. 51501
 Gene No. 109120
 Start 1
 Name OJ990821_42.0421.C1.o1.ts
 Start 2
 GI none
 Exons 2..286

Seq. ID OJ990821_42.0421.C1
 Strand +
 End 749
 Method TBLASTX:Soybean
 End 286
 Score 187

Seq. No. 51501
 Gene No. 109120
 Start 1
 Name OJ990821_42.0421.C1.o1.gs
 Start 23
 GI none
 Exons 23..562

Seq. ID OJ990821_42.0421.C1
 Strand +
 End 749
 Method GENSCAN
 End 562
 Score .98

Seq. No. 51502
 Gene No. 109121

Seq. ID OJ990821_42.0421.C3
 Strand +

Start	491	End	1134
Name	OJ990821_42.0421.C3.o1.np	Method	AAT/NAP
Start	491	End	1134
GI	2498930	Score	757
Exons	491..551, 719..1134		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	51503	Seq. ID	OJ990821_42.0421.C5
Gene No.	109122	Strand	+
Start	376	End	3714
Name	OJ990821_42.0421.C5.o1.gs	Method	GENSCAN
Start	376	End	3714
GI	none	Score	.61
Exons	376..624, 1089..1185, 1881..1933, 2030..2171, 2322..2786, 2931..3472, 3549..3714		

Seq. No.	51504	Seq. ID	OJ990821_42.0421.C6
Gene No.	109123	Strand	+
Start	1367	End	6270
Name	OJ990821_42.0421.C6.o1.np	Method	AAT/NAP
Start	1367	End	6270
GI	7106512	Score	1032
Exons	1367..1427, 1500..1691, 1985..3171, 6234..6270		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51504	Seq. ID	OJ990821_42.0421.C6
Gene No.	109124	Strand	+
Start	6604	End	7338
Name	OJ990821_42.0421.C6.o1.gp	Method	AAT/GAP
Start	6604	End	7338
GI	101153_1.R1084	Score	630
Exons	6604..6793, 7110..7338		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51504	Seq. ID	OJ990821_42.0421.C6
Gene No.	109125	Strand	+
Start	7356	End	7783
Name	OJ990821_42.0421.C6.o2.gp	Method	AAT/GAP
Start	7356	End	7783
GI	2428185	Score	833
Exons	7356..7783		
GI Descrip.	5852170/emb AL117265.1 OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	51504	Seq. ID	OJ990821_42.0421.C6
Gene No.	109126	Strand	+
Start	9125	End	11042
Name	OJ990821_42.0421.C6.o2.np	Method	AAT/NAP
Start	9125	End	11042
GI	6983860	Score	960
Exons	9125..10168, 10998..11042		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	51504	Seq. ID	OJ990821_42.0421.C6
Gene No.	109126	Strand	+
Start	9125	End	11042
Name	OJ990821_42.0421.C6.o3.np	Method	AAT/NAP
Start	9455	End	11042
GI	6063554	Score	111
Exons	9455..9499, 10869..11042		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51504	Seq. ID	OJ990821_42.0421.C6
Gene No.	109127	Strand	-
Start	8312	End	8567
Name	OJ990821_42.0421.C6.o3.gp	Method	AAT/GAP
Start	8312	End	8567
GI	61605_3.R1084	Score	428
Exons	8312..8567		
GI Descrip.	'1402920/emb CAA66965 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	51504	Seq. ID	OJ990821_42.0421.C6
Gene No.	109128	Strand	
Start	9187	End	9473
Name	OJ990821_42.0421.C6.o2.tw	Method	TBLASTX:Wheat
Start	9187	End	9473
GI	none	Score	35
Exons	9187..9231, 9290..9472, 9292..9471, 9299..9472, 9336..9473		

Seq. No.	51504	Seq. ID	OJ990821_42.0421.C6
Gene No.	109129	Strand	
Start	9524	End	9892
Name	OJ990821_42.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	9524	End	9820
GI	none	Score	240
Exons	9524..9820, 9547..9711, 9752..9820		

Seq. No.	51504	Seq. ID	OJ990821_42.0421.C6
Gene No.	109129	Strand	
Start	9524	End	9892
Name	OJ990821_42.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	9524	End	9892
GI	none	Score	294
Exons	9524..9892, 9547..9717		

Seq. No.	51505	Seq. ID	OJ990821_42.0421.C7
Gene No.	109130	Strand	+
Start	1483	End	2115
Name	OJ990821_42.0421.C7.o1.np	Method	AAT/NAP
Start	1483	End	2115
GI	6907087	Score	311
Exons	1483..2115		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51505	Seq. ID	OJ990821_42.0421.C7
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Gene No.	109130	Strand	+
Start	1483	End	2115
Name	OJ990821_42.0421.C7.o1.gs	Method	GENSCAN
Start	1638	End	2109
GI	none	Score	.63
Exons	1638..2109		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109131	Strand	+
Start	1	End	12807
Name	OJ990821_42.0421.C8.o2.np	Method	AAT/NAP
Start	1	End	4029
GI	7248395	Score	1375
Exons	1..36, 1433..1483, 2363..4029		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109131	Strand	+
Start	1	End	12807
Name	OJ990821_42.0421.C8.o1.gp	Method	AAT/GAP
Start	886	End	1267
GI	uC-osflcyp033a04b1	Score	627
Exons	886..1267		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109131	Strand	+
Start	1	End	12807
Name	OJ990821_42.0421.C8.o1.gs	Method	GENSCAN
Start	984	End	3976
GI	none	Score	.65
Exons	984..1054, 2284..2503, 2531..2753, 2865..3442, 3553..3727, 3876..3976		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109131	Strand	+
Start	1	End	12807
Name	OJ990821_42.0421.C8.o4.np	Method	AAT/NAP
Start	2347	End	7484
GI	7106512	Score	1232
Exons	2347..3723, 4231..4383, 4537..4805, 7463..7484		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109131	Strand	+
Start	1	End	12807
Name	OJ990821_42.0421.C8.o5.np	Method	AAT/NAP
Start	6481	End	12807
GI	7106512	Score	84
Exons	6481..6541, 6614..6685, 12762..12807		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109131	Strand	+

Start	1	End	12807
Name	OJ990821_42.0421.C8.o6.np	Method	AAT/NAP
Start	8722	End	9417
GI	7248393	Score	542
Exons	8722..9009, 9049..9417		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109132	Strand	+
Start	15510	End	15891
Name	OJ990821_42.0421.C8.o5.gp	Method	AAT/GAP
Start	15510	End	15891
GI	uC-osflcyp033a04b1	Score	659
Exons	15510..15891		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109133	Strand	+
Start	17302	End	17573
Name	OJ990821_42.0421.C8.o6.gp	Method	AAT/GAP
Start	17302	End	17573
GI	61605_1.R1084	Score	417
Exons	17302..17573		
GI Descrip.	'5852170/emb AL117265.1 OST17804 1.0e-137 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109134	Strand	-
Start	814	End	2763
Name	OJ990821_42.0421.C8.o1.np	Method	AAT/NAP
Start	814	End	2763
GI	4680186	Score	239
Exons	814..1044, 2717..2763		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109135	Strand	-
Start	4323	End	4577
Name	OJ990821_42.0421.C8.o3.np	Method	AAT/NAP
Start	4323	End	4577
GI	7106513	Score	182
Exons	4323..4431, 4534..4577		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109136	Strand	-
Start	6220	End	6528
Name	OJ990821_42.0421.C8.o2.gp	Method	AAT/GAP
Start	6220	End	6528
GI	72524_1.R1084	Score	431
Exons	6220..6528		
GI Descrip.	'5091496/dbj AB023482.2 AB023482 3.0e-84 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109137	Strand	-

Start	7971	End	17917
Name	OJ990821_42.0421.C8.o7.np	Method	AAT/NAP
Start	7971	End	17917
GI	5852180	Score	474
Exons	7971..8029, 14142..14590, 14642..14760, 15740..15793, 17853..17917		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51506	Seq. ID	OJ990821_42.0421.C8
Gene No.	109137	Strand	-
Start	7971	End	17917
Name	OJ990821_42.0421.C8.o4.gs	Method	GENSCAN
Start	15440	End	16723
GI	none	Score	.58
Exons	15440..15552, 15740..15793, 16642..16723		

Seq. No.	51507	Seq. ID	OJ990821_42.0421.C9
Gene No.	109138	Strand	+
Start	166	End	541
Name	OJ990821_42.0421.C9.o1.gs	Method	GENSCAN
Start	166	End	541
GI	none	Score	.74
Exons	166..405, 455..541		

Seq. No.	51507	Seq. ID	OJ990821_42.0421.C9
Gene No.	109139	Strand	+
Start	1237	End	8738
Name	OJ990821_42.0421.C9.o1.np	Method	AAT/NAP
Start	1237	End	2975
GI	6907087	Score	933
Exons	1237..1605, 1651..2335, 2874..2975		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51507	Seq. ID	OJ990821_42.0421.C9
Gene No.	109139	Strand	+
Start	1237	End	8738
Name	OJ990821_42.0421.C9.o4.np	Method	AAT/NAP
Start	1570	End	7951
GI	6466937	Score	200
Exons	1570..1590, 6845..7462, 7873..7951		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	51507	Seq. ID	OJ990821_42.0421.C9
Gene No.	109139	Strand	+
Start	1237	End	8738
Name	OJ990821_42.0421.C9.o1.gp	Method	AAT/GAP
Start	3439	End	3820
GI	uC-osflcyp033a04b1	Score	679
Exons	3439..3820		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51507	Seq. ID	OJ990821_42.0421.C9
Gene No.	109139	Strand	+

Start	1237	End	8738
Name	OJ990821_42.0421.C9.o4.gs	Method	GENSCAN
Start	3617	End	8738
GI	none	Score	.42
Exons	3617..3688, 4793..5030, 5732..6094, 6650..6848, 7069..7289, 8300..8341, 8497..8738		

Seq. No.	51507	Seq. ID	OJ990821_42.0421.C9
Gene No.	109140	Strand	-
Start	1565	End	2095
Name	OJ990821_42.0421.C9.o2.gs	Method	GENSCAN
Start	1565	End	2095
GI	none	Score	1
Exons	1565..2095		

Seq. No.	51507	Seq. ID	OJ990821_42.0421.C9
Gene No.	109141	Strand	-
Start	2196	End	3198
Name	OJ990821_42.0421.C9.o3.gs	Method	GENSCAN
Start	2196	End	3198
GI	none	Score	.8
Exons	2196..2618, 3148..3198		

Seq. No.	51507	Seq. ID	OJ990821_42.0421.C9
Gene No.	109142	Strand	-
Start	3368	End	4729
Name	OJ990821_42.0421.C9.o2.np	Method	AAT/NAP
Start	3368	End	4729
GI	4680186	Score	282
Exons	3368..3572, 4676..4729		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51507	Seq. ID	OJ990821_42.0421.C9
Gene No.	109143	Strand	-
Start	4910	End	5271
Name	OJ990821_42.0421.C9.o3.np	Method	AAT/NAP
Start	4910	End	5271
GI	6907087	Score	304
Exons	4910..5271		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51507	Seq. ID	OJ990821_42.0421.C9
Gene No.	109144	Strand	-
Start	7224	End	11129
Name	OJ990821_42.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	6975	End	7446
GI	none	Score	71
Exons	6975..7037, 6983..7042, 7042..7131, 7043..7219, 7238..7414, 7252..7446		

Seq. No.	51507	Seq. ID	OJ990821_42.0421.C9
Gene No.	109144	Strand	-
Start	7224	End	11129
Name	OJ990821_42.0421.C9.o5.np	Method	AAT/NAP
Start	7224	End	11129

GI 6983860 Score 588
 Exons 7224..7244, 9922..10159, 10358..11129
 GI Descrip. (AF001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type
 (AF061282) [Oryza sativa]

Seq. No. 51507 Seq. ID OJ990821_42.0421.C9
 Gene No. 109144 Strand -
 Start 7224 End 11129
 Name OJ990821_42.0421.C9.o5.gs Method GENSCAN
 Start 9321 End 11028
 GI none Score .8
 Exons 9321..9473, 9841..10632, 10786..11028

Seq. No. 51507 Seq. ID OJ990821_42.0421.C9
 Gene No. 109144 Strand -
 Start 7224 End 11129
 Name OJ990821_42.0421.C9.o2.tm Method TBLASTX:Maize
 Start 10399 End 10698
 GI none Score 67
 Exons 10399..10698, 10595..10684

Seq. No. 51507 Seq. ID OJ990821_42.0421.C9
 Gene No. 109144 Strand -
 Start 7224 End 11129
 Name OJ990821_42.0421.C9.o1.tw Method TBLASTX:Wheat
 Start 10579 End 10938
 GI none Score 86
 Exons 10579..10938, 10583..10819, 10844..10936

Seq. No. 51508 Seq. ID OJ990821_42.0421.C10
 Gene No. 109145 Strand +
 Start 1 End 515
 Name OJ990821_42.0421.C10.o1.np Method AAT/NAP
 Start 1 End 515
 GI 4680186 Score 125
 Exons 1..30, 309..515
 GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No. 51508 Seq. ID OJ990821_42.0421.C10
 Gene No. 109146 Strand -
 Start 865 End 899
 Name OJ990821_42.0421.C10.o1.gs Method GENSCAN
 Start 865 End 899
 GI none Score .64
 Exons 865..899

Seq. No. 51509 Seq. ID OJ990821_42.0421.C11
 Gene No. 109147 Strand +
 Start 673 End 1044
 Name OJ990821_42.0421.C11.o1.gs Method GENSCAN
 Start 673 End 1044
 GI none Score .44
 Exons 673..1044

Seq. No. 51510 Seq. ID OJ990821_42.0421.C12
 Gene No. 109148 Strand -
 Start 624 End 1000

Name	OJ990821_42.0421.C12.o1.gs	Method	GENSCAN
Start	624	End	1000
GI	none	Score	.73
Exons	624..741, 945..1000		
Seq. No.	51511	Seq. ID	OJ990821_42.0421.C13
Gene No.	109149	Strand	+
Start	591	End	924
Name	OJ990821_42.0421.C13.o2.gp	Method	AAT/GAP
Start	591	End	924
GI	92678_1.R1084	Score	359
Exons	591..734, 807..924		
GI Descrip.	'6069643/dbj AP000616.1 AP000616 9.0e-67 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		
Seq. No.	51511	Seq. ID	OJ990821_42.0421.C13
Gene No.	109150	Strand	+
Start	1680	End	5498
Name	OJ990821_42.0421.C13.o1.gs	Method	GENSCAN
Start	1680	End	5498
GI	none	Score	.73
Exons	1680..1868, 3065..4131, 4395..5498		
Seq. No.	51511	Seq. ID	OJ990821_42.0421.C13
Gene No.	109150	Strand	+
Start	1680	End	5498
Name	OJ990821_42.0421.C13.o1.np	Method	AAT/NAP
Start	3085	End	5112
GI	2852684	Score	748
Exons	3085..5112		
GI Descrip.	(AF017751) resistance protein candidate [Lactuca sativa]		
Seq. No.	51511	Seq. ID	OJ990821_42.0421.C13
Gene No.	109150	Strand	+
Start	1680	End	5498
Name	OJ990821_42.0421.C13.o1.ts	Method	TBLASTX:Soybean
Start	3877	End	4595
GI	none	Score	50
Exons	3877..3954, 3961..4068, 4149..4232, 4311..4463, 4313..4447, 4479..4595		
Seq. No.	51512	Seq. ID	OJ990821_42.0421.C15
Gene No.	109151	Strand	+
Start	368	End	806
Name	OJ990821_42.0421.C15.o1.gs	Method	GENSCAN
Start	368	End	647
GI	none	Score	.74
Exons	368..647		
Seq. No.	51512	Seq. ID	OJ990821_42.0421.C15
Gene No.	109151	Strand	+
Start	368	End	806
Name	OJ990821_42.0421.C15.o1.np	Method	AAT/NAP
Start	368	End	806
GI	7248393	Score	245
Exons	368..647, 687..806		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	51513	Seq. ID	OJ990821_42.0421.C16
Gene No.	109152	Strand	-
Start	1	End	1550
Name	OJ990821_42.0421.C16.o1.np	Method	AAT/NAP
Start	1	End	1550
GI	5042463	Score	115
Exons	1..48, 402..488, 1212..1550		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	51514	Seq. ID	OJ990821_42.0421.C18
Gene No.	109153	Strand	+
Start	49	End	1129
Name	OJ990821_42.0421.C18.o1.gs	Method	GENSCAN
Start	49	End	1129
GI	none	Score	.93
Exons	49..270, 590..673, 752..1129		

Seq. No.	51515	Seq. ID	OJ990821_42.0421.C19
Gene No.	109154	Strand	-
Start	3468	End	5088
Name	OJ990821_42.0421.C19.o1.np	Method	AAT/NAP
Start	3468	End	5088
GI	6907087	Score	571
Exons	3468..3569, 4111..4507, 4542..4681, 4727..5088		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51516	Seq. ID	OJ990821_42.0421.C20
Gene No.	109155	Strand	+
Start	76	End	3659
Name	OJ990821_42.0421.C20.o1.gs	Method	GENSCAN
Start	76	End	3659
GI	none	Score	.7
Exons	76..483, 556..631, 721..895, 935..1598, 1762..2521, 2867..2956, 3261..3300, 3508..3552, 3647..3659		

Seq. No.	51517	Seq. ID	OJ990821_42.0421.C21
Gene No.	109156	Strand	-
Start	1	End	2712
Name	OJ990821_42.0421.C21.o1.np	Method	AAT/NAP
Start	1	End	1106
GI	629693	Score	469
Exons	1..1106		
GI Descrip.	probable integrase - common tobacco (fragment) gi 530742 emb CAA56791 (X80830) integrase [Nicotiana tabacum]		

Seq. No.	51517	Seq. ID	OJ990821_42.0421.C21
Gene No.	109156	Strand	-
Start	1	End	2712
Name	OJ990821_42.0421.C21.o2.np	Method	AAT/NAP
Start	1	End	1133
GI	4263831	Score	351
Exons	1..611, 737..1133		
GI Descrip.	(AC006067) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	51517	Seq. ID	OJ990821_42.0421.C21
Gene No.	109156	Strand	-
Start	1	End	2712
Name	OJ990821_42.0421.C21.o4.np	Method	AAT/NAP
Start	294	End	2712
GI	7248394	Score	301
Exons	294..319, 1698..2067, 2623..2712		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	51517	Seq. ID	OJ990821_42.0421.C21
Gene No.	109156	Strand	-
Start	1	End	2712
Name	OJ990821_42.0421.C21.o1.gs	Method	GENSCAN
Start	597	End	2671
GI	none	Score	.52
Exons	597..671, 1054..1785, 2630..2671		

Seq. No.	51517	Seq. ID	OJ990821_42.0421.C21
Gene No.	109156	Strand	-
Start	1	End	2712
Name	OJ990821_42.0421.C21.o2.ts	Method	TBLASTX:Soybean
Start	784	End	1056
GI	none	Score	192
Exons	784..1056		

Seq. No.	51517	Seq. ID	OJ990821_42.0421.C21
Gene No.	109156	Strand	-
Start	1	End	2712
Name	OJ990821_42.0421.C21.o1.tm	Method	TBLASTX:Maize
Start	805	End	1137
GI	none	Score	184
Exons	805..1137		

Seq. No.	51517	Seq. ID	OJ990821_42.0421.C21
Gene No.	109156	Strand	-
Start	1	End	2712
Name	OJ990821_42.0421.C21.o1.tw	Method	TBLASTX:Wheat
Start	1393	End	1776
GI	none	Score	64
Exons	1393..1662, 1684..1776		

Seq. No.	51517	Seq. ID	OJ990821_42.0421.C21
Gene No.	109156	Strand	-
Start	1	End	2712
Name	OJ990821_42.0421.C21.o1.ts	Method	TBLASTX:Soybean
Start	1426	End	1836
GI	none	Score	94
Exons	1426..1677, 1511..1678, 1685..1834, 1699..1836		

Seq. No.	51518	Seq. ID	OJ990821_42.0421.C22
Gene No.	109157	Strand	+
Start	1292	End	1673

Name	OJ990821_42.0421.C22.o2.gp	Method	AAT/GAP
Start	1292	End	1673
GI	uC-osflcyp033a04b1	Score	671
Exons	1292..1673		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51518	Seq. ID	OJ990821_42.0421.C22
Gene No.	109158	Strand	-
Start	530	End	4224
Name	OJ990821_42.0421.C22.o1.np	Method	AAT/NAP
Start	530	End	4224
GI	7248394	Score	1455
Exons	530..558, 2371..3090, 3353..4224		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	51518	Seq. ID	OJ990821_42.0421.C22
Gene No.	109158	Strand	-
Start	530	End	4224
Name	OJ990821_42.0421.C22.o2.ts	Method	TBLASTX:Soybean
Start	2377	End	2806
GI	none	Score	70
Exons	2377..2523, 2378..2479, 2524..2574, 2648..2806, 2694..2768		

Seq. No.	51518	Seq. ID	OJ990821_42.0421.C22
Gene No.	109158	Strand	-
Start	530	End	4224
Name	OJ990821_42.0421.C22.o1.tm	Method	TBLASTX:Maize
Start	2491	End	2953
GI	none	Score	68
Exons	2491..2583, 2492..2575, 2648..2953, 2682..2804, 2836..2946, 2865..2951, 2873..2953		

Seq. No.	51518	Seq. ID	OJ990821_42.0421.C22
Gene No.	109158	Strand	-
Start	530	End	4224
Name	OJ990821_42.0421.C22.o1.tw	Method	TBLASTX:Wheat
Start	2822	End	3175
GI	none	Score	104
Exons	2822..3175, 2823..2975, 2867..3166, 3027..3167		

Seq. No.	51518	Seq. ID	OJ990821_42.0421.C22
Gene No.	109158	Strand	-
Start	530	End	4224
Name	OJ990821_42.0421.C22.o2.tm	Method	TBLASTX:Maize
Start	2954	End	3172
GI	none	Score	143
Exons	2954..3172, 3027..3167		

Seq. No.	51518	Seq. ID	OJ990821_42.0421.C22
Gene No.	109158	Strand	-
Start	530	End	4224
Name	OJ990821_42.0421.C22.o3.ts	Method	TBLASTX:Soybean

Start 3023
GI none
Exons 3023..3157, 3213..3383

End 3383
Score 108

Seq. No. 51518
Gene No. 109158
Start 530
Name OJ990821_42.0421.C22.o1.ts
Start 3792
GI none
Exons 3792..4130

Seq. ID OJ990821_42.0421.C22
Strand -
End 4224
Method TBLASTX:Soybean
End 4130
Score 199

Seq. No. 51519
Gene No. 109159
Start 286
Name OJ990821_42.0421.C23.o1.gs
Start 286
GI none
Exons 286..615, 697..735

Seq. ID OJ990821_42.0421.C23
Strand -
End 735
Method GENSCAN
End 735
Score .91

Seq. No. 51520
Gene No. 109160
Start 2094
Name OJ990821_42.0421.C24.o1.np
Start 2094
GI 7340868
Exons 2094..2253, 2748..2806
GI Descrip. (AP001551) hypothetical protein [Oryza sativa]

Seq. ID OJ990821_42.0421.C24
Strand +
End 2806
Method AAT/NAP
End 2806
Score 41

Seq. No. 51520
Gene No. 109161
Start 402
Name OJ990821_42.0421.C24.o1.gs
Start 402
GI none
Exons 402..957, 1188..1232

Seq. ID OJ990821_42.0421.C24
Strand -
End 1232
Method GENSCAN
End 1232
Score .85

Seq. No. 51521
Gene No. 109162
Start 1
Name OJ990821_42.0421.C25.o2.np
Start 1
GI 4680186
Exons 1..50, 3736..3789, 4620..4765, 4828..4882
GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. ID OJ990821_42.0421.C25
Strand +
End 4882
Method AAT/NAP
End 4882
Score 254

Seq. No. 51521
Gene No. 109162
Start 1
Name OJ990821_42.0421.C25.o1.gs
Start 729
GI none
Exons 729..841, 2795..2841, 4471..4523, 4711..4827

Seq. ID OJ990821_42.0421.C25
Strand +
End 4882
Method GENSCAN
End 4827
Score .71

Seq. No. 51521
Gene No. 109163
Start 5494

Seq. ID OJ990821_42.0421.C25
Strand +
End 5732

Name	OJ990821_42.0421.C25.o1.gp	Method	AAT/GAP
Start	5494	End	5732
GI	57406_2.R1084	Score	375
Exons	5494..5732		
GI Descrip.	'6041757/gb AC011806.1 AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	51521	Seq. ID	OJ990821_42.0421.C25
Gene No.	109164	Strand	-
Start	1	End	4553
Name	OJ990821_42.0421.C25.o1.np	Method	AAT/NAP
Start	1	End	4553
GI	5852181	Score	122
Exons	1..60, 1159..1340, 4522..4553		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	51521	Seq. ID	OJ990821_42.0421.C25
Gene No.	109165	Strand	-
Start	5647	End	8834
Name	OJ990821_42.0421.C25.o2.gs	Method	GENSCAN
Start	5647	End	8834
GI	none	Score	.8
Exons	5647..5729, 7167..7193, 7996..8132, 8408..8518, 8597..8834		

Seq. No.	51522	Seq. ID	OJ990821_42.0421.C28
Gene No.	109166	Strand	+
Start	1670	End	4873
Name	OJ990821_42.0421.C28.o1.np	Method	AAT/NAP
Start	1670	End	4873
GI	7267361	Score	222
Exons	1670..2385, 4812..4873		
GI Descrip.	(AL161506) putative athila transposon protein [Arabidopsis thaliana]		

Seq. No.	51522	Seq. ID	OJ990821_42.0421.C28
Gene No.	109167	Strand	-
Start	3208	End	4738
Name	OJ990821_42.0421.C28.o2.gs	Method	GENSCAN
Start	3208	End	4738
GI	none	Score	.57
Exons	3208..3624, 4419..4530, 4555..4738		

Seq. No.	51523	Seq. ID	OJ990821_42.0421.C29
Gene No.	109168	Strand	+
Start	5	End	677
Name	OJ990821_42.0421.C29.o1.gs	Method	GENSCAN
Start	5	End	677
GI	none	Score	.85
Exons	5..52, 60..677		

Seq. No.	51524	Seq. ID	OJ990821_42.0421.C31
Gene No.	109169	Strand	+
Start	155	End	218
Name	OJ990821_42.0421.C31.o1.gs	Method	GENSCAN
Start	155	End	218
GI	none	Score	.48

Exons 155..218

Seq. No. 51524 Seq. ID OJ990821_42.0421.C31
Gene No. 109170 Strand -
Start 970 End 1117
Name OJ990821_42.0421.C31.o1.gp Method AAT/GAP
Start 970 End 1117
GI 5455363 Score 113
Exons 970..995, 1059..1117
GI Descrip. 3176667 1.0e-17 (AC004393) Similar to hypothetical 41.9KD
protein gb_1001369 from sequence of Synechocystis sp.
gb_D64006. [Arabidopsis thaliana]

Seq. No. 51525 Seq. ID OJ990821_42.0421.C32
Gene No. 109171 Strand -
Start 88 End 1646
Name OJ990821_42.0421.C32.o1.gs Method GENSCAN
Start 88 End 1646
GI none Score .48
Exons 88..240, 888..1092, 1461..1646

Seq. No. 51526 Seq. ID OJ990821_42.0421.C33
Gene No. 109172 Strand +
Start 118 End 3690
Name OJ990821_42.0421.C33.o1.gs Method GENSCAN
Start 118 End 3690
GI none Score .66
Exons 118..238, 449..601, 1355..2151, 3583..3690

Seq. No. 51526 Seq. ID OJ990821_42.0421.C33
Gene No. 109172 Strand +
Start 118 End 3690
Name OJ990821_42.0421.C33.o1.np Method AAT/NAP
Start 1399 End 2959
GI 7486147 Score 599
Exons 1399..2959
GI Descrip. hypothetical protein F25I24.40 - Arabidopsis thaliana
gi|4539357|emb|CAB40051.1| (AL049525) putative protein
[Arabidopsis thaliana] gi|7267781|emb|CAB81184.1| (AL161518)
putative protein [Arabidopsis thaliana]

Seq. No. 51526 Seq. ID OJ990821_42.0421.C33
Gene No. 109173 Strand +
Start 4762 End 8770
Name OJ990821_42.0421.C33.o3.np Method AAT/NAP
Start 4762 End 6189
GI 7242910 Score 104
Exons 4762..5189, 5703..5989, 6076..6189
GI Descrip. (AP001383) hypothetical protein [Oryza sativa]

Seq. No. 51526 Seq. ID OJ990821_42.0421.C33
Gene No. 109173 Strand +
Start 4762 End 8770
Name OJ990821_42.0421.C33.o3.gs Method GENSCAN
Start 5740 End 8770
GI none Score .68
Exons 5740..6038, 7108..7162, 7571..7666, 8137..8315, 8614..8770

Seq. No.	51526	Seq. ID	OJ990821_42.0421.C33
Gene No.	109174	Strand	-
Start	3365	End	8776
Name	OJ990821_42.0421.C33.o4.tm	Method	TBLASTX:Maize
Start	1446	End	1620
GI	none	Score	191
Exons	1446..1541, 1447..1620, 1459..1614		

Seq. No.	51526	Seq. ID	OJ990821_42.0421.C33
Gene No.	109174	Strand	-
Start	3365	End	8776
Name	OJ990821_42.0421.C33.o1.tm	Method	TBLASTX:Maize
Start	1705	End	2622
GI	none	Score	232
Exons	1705..1935, 1728..1931, 1837..1935, 1947..2150, 1948..2622, 2193..2273, 2398..2550		

Seq. No.	51526	Seq. ID	OJ990821_42.0421.C33
Gene No.	109174	Strand	-
Start	3365	End	8776
Name	OJ990821_42.0421.C33.o1.tw	Method	TBLASTX:Wheat
Start	1759	End	2067
GI	none	Score	224
Exons	1759..1941, 1791..1940, 1942..2067, 1947..2033		

Seq. No.	51526	Seq. ID	OJ990821_42.0421.C33
Gene No.	109174	Strand	-
Start	3365	End	8776
Name	OJ990821_42.0421.C33.o2.tm	Method	TBLASTX:Maize
Start	2872	End	3343
GI	none	Score	305
Exons	2872..3090, 2873..3244, 3262..3339, 3311..3343		

Seq. No.	51526	Seq. ID	OJ990821_42.0421.C33
Gene No.	109174	Strand	-
Start	3365	End	8776
Name	OJ990821_42.0421.C33.o2.tw	Method	TBLASTX:Wheat
Start	3068	End	3430
GI	none	Score	122
Exons	3068..3259, 3205..3426, 3249..3401, 3275..3427, 3311..3430		

Seq. No.	51526	Seq. ID	OJ990821_42.0421.C33
Gene No.	109174	Strand	-
Start	3365	End	8776
Name	OJ990821_42.0421.C33.o2.np	Method	AAT/NAP
Start	3365	End	8776
GI	7486567	Score	72
Exons	3365..3399, 5302..5498, 8645..8776		
GI Descrip.	hypothetical protein F7H19.150 - Arabidopsis thaliana gi 3292822 emb CAA19812.1 (AL031018) putative protein [Arabidopsis thaliana] gi 7269144 emb CAB79252.1 (AL161558) putative protein [Arabidopsis thaliana]		

Seq. No.	51526	Seq. ID	OJ990821_42.0421.C33
Gene No.	109174	Strand	-
Start	3365	End	8776

Name	OJ990821_42.0421.C33.o2.gs	Method	GENSCAN
Start	4786	End	5485
GI	none	Score	.81
Exons	4786..5020, 5043..5485		
Seq. No.	51526	Seq. ID	OJ990821_42.0421.C33
Gene No.	109174	Strand	-
Start	3365	End	8776
Name	OJ990821_42.0421.C33.o3.tm	Method	TBLASTX:Maize
Start	6350	End	6643
GI	none	Score	156
Exons	6350..6520, 6385..6510, 6394..6537, 6542..6643		
Seq. No.	51527	Seq. ID	OJ990821_42.0421.C34
Gene No.	109175	Strand	+
Start	1	End	1658
Name	OJ990821_42.0421.C34.o1.np	Method	AAT/NAP
Start	1	End	1658
GI	6688926	Score	113
Exons	1..111, 979..1081, 1551..1658		
GI Descrip.	(AJ251365) VAP27 [Nicotiana plumbaginifolia]		
Seq. No.	51527	Seq. ID	OJ990821_42.0421.C34
Gene No.	109176	Strand	-
Start	2615	End	2827
Name	OJ990821_42.0421.C34.o1.gs	Method	GENSCAN
Start	2615	End	2827
GI	none	Score	.82
Exons	2615..2827		
Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109177	Strand	+
Start	735	End	5203
Name	OJ990821_42.0421.C35.o1.gs	Method	GENSCAN
Start	735	End	5203
GI	none	Score	.63
Exons	735..784, 1104..1193, 4396..4575, 4999..5203		
Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o2.gs	Method	GENSCAN
Start	7265	End	20647
GI	none	Score	.52
Exons	7265..7399, 7517..8236, 10240..10368, 11404..11425, 11622..11809, 14446..14608, 15545..15739, 15799..16003, 16317..17140, 17155..17633, 17646..17879, 17892..18140, 18257..18730, 18835..19021, 19056..20647		
Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o1.np	Method	AAT/NAP
Start	7268	End	7653
GI	7486198	Score	108
Exons	7268..7374, 7525..7653		
GI Descrip.	hypothetical protein F26K10.170 - Arabidopsis thaliana		

gi|7269683|emb|CAB79631.1| (AL161572) putative protein
[Arabidopsis thaliana]

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o1.tc	Method	TBLASTX:Cress
Start	16312	End	17013
GI	none	Score	79
Exons	16312..16587, 16337..16543, 16585..16710, 16607..16711, 16702..16791, 16718..16777, 16822..17013		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o3.np	Method	AAT/NAP
Start	16318	End	20458
GI	7228446	Score	3362
Exons	16318..17187, 17274..19545, 19577..20458		
GI Descrip.	(AP001366) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative retroelement pol polyprotein. (AC006248) [Oryza sativa]		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o2.ts	Method	TBLASTX:Soybean
Start	16327	End	16983
GI	none	Score	80
Exons	16327..16791, 16379..16516, 16607..16792, 16852..16983		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o6.tm	Method	TBLASTX:Maize
Start	16339	End	16584
GI	none	Score	93
Exons	16339..16584, 16457..16579		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o1.tm	Method	TBLASTX:Maize
Start	16585	End	17110
GI	none	Score	125
Exons	16585..16791, 16640..16804, 16843..17043, 16849..17040, 17069..17110		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o4.tw	Method	TBLASTX:Wheat
Start	16738	End	17178
GI	none	Score	106
Exons	16738..16791, 16816..17004, 17032..17178		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
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Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o1.ts	Method	TBLASTX:Soybean
Start	17358	End	17837
GI	5509260	Score	51
Exons	17358..17837, 17362..17427, 17461..17535, 17617..17811		
GI Descrip.	-		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o2.tw	Method	TBLASTX:Wheat
Start	17373	End	17819
GI	none	Score	96
Exons	17373..17714, 17377..17535, 17748..17819		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o2.tc	Method	TBLASTX:Cress
Start	17472	End	17736
GI	none	Score	99
Exons	17472..17735, 17611..17736		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o2.tm	Method	TBLASTX:Maize
Start	17511	End	17828
GI	none	Score	220
Exons	17511..17828, 17512..17820, 17559..17828		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o3.ts	Method	TBLASTX:Soybean
Start	18195	End	18670
GI	none	Score	142
Exons	18195..18233, 18233..18670, 18369..18665		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o3.tc	Method	TBLASTX:Cress
Start	18233	End	18679
GI	none	Score	213
Exons	18233..18679		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o3.tm	Method	TBLASTX:Maize
Start	18272	End	18701
GI	none	Score	59
Exons	18272..18331, 18272..18334, 18356..18697, 18375..18701		

Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
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Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o1.tw	Method	TBLASTX:Wheat
Start	18344	End	18904
GI	none	Score	119
Exons	18344..18433, 18440..18904, 18450..18689		
Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o4.ts	Method	TBLASTX:Soybean
Start	18710	End	19039
GI	none	Score	93
Exons	18710..19039, 18714..19013, 18863..18943		
Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o3.tw	Method	TBLASTX:Wheat
Start	18983	End	19429
GI	none	Score	50
Exons	18983..19063, 19062..19133, 19064..19429, 19118..19387, 19200..19409		
Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o4.tm	Method	TBLASTX:Maize
Start	19043	End	19513
GI	none	Score	114
Exons	19043..19450, 19118..19441, 19248..19451, 19427..19513		
Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o5.tm	Method	TBLASTX:Maize
Start	19994	End	20306
GI	none	Score	158
Exons	19994..20305, 19998..20306		
Seq. No.	51528	Seq. ID	OJ990821_42.0421.C35
Gene No.	109178	Strand	-
Start	7265	End	20647
Name	OJ990821_42.0421.C35.o5.tw	Method	TBLASTX:Wheat
Start	20000	End	20395
GI	none	Score	62
Exons	20000..20395, 20217..20345		
Seq. No.	51529	Seq. ID	OJ990821_42.0421.C36
Gene No.	109179	Strand	+
Start	1	End	2043
Name	OJ990821_42.0421.C36.o1.np	Method	AAT/NAP
Start	1	End	286
GI	5777617	Score	123
Exons	1..23, 182..286		
GI Descrip.	(AJ245900).CAA30375.1 protein [Oryza sativa]		

Seq. No.	51529	Seq. ID	OJ990821_42.0421.C36
Gene No.	109179	Strand	+
Start	1	End	2043
Name	OJ990821_42.0421.C36.o2.np	Method	AAT/NAP
Start	1	End	2043
GI	7340909	Score	144
Exons	1..48, 947..1279, 1429..1532, 1944..2043		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51529	Seq. ID	OJ990821_42.0421.C36
Gene No.	109180	Strand	-
Start	437	End	6800
Name	OJ990821_42.0421.C36.o1.gs	Method	GENSCAN
Start	437	End	6800
GI	none	Score	.62
Exons	437..863, 1152..1249, 1378..1605, 1653..1779, 3162..3286, 4143..4394, 4794..4859, 5135..5229, 5247..5318, 6707..6800		

Seq. No.	51529	Seq. ID	OJ990821_42.0421.C36
Gene No.	109180	Strand	-
Start	437	End	6800
Name	OJ990821_42.0421.C36.o4.np	Method	AAT/NAP
Start	732	End	3487
GI	7340909	Score	169
Exons	732..879, 1796..1885, 1951..2204, 3461..3487		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51529	Seq. ID	OJ990821_42.0421.C36
Gene No.	109180	Strand	-
Start	437	End	6800
Name	OJ990821_42.0421.C36.o3.np	Method	AAT/NAP
Start	1287	End	1663
GI	6714421	Score	332
Exons	1287..1663		
GI Descrip.	(AC012328) unknown protein [Arabidopsis thaliana]		

Seq. No.	51529	Seq. ID	OJ990821_42.0421.C36
Gene No.	109180	Strand	-
Start	437	End	6800
Name	OJ990821_42.0421.C36.o1.tm	Method	TBLASTX:Maize
Start	1305	End	1678
GI	none	Score	196
Exons	1305..1358, 1354..1509, 1360..1509, 1376..1561, 1472..1561, 1561..1596, 1564..1581, 1592..1642, 1606..1638, 1640..1678, 1640..1675, 1642..1677		

Seq. No.	51529	Seq. ID	OJ990821_42.0421.C36
Gene No.	109180	Strand	-
Start	437	End	6800
Name	OJ990821_42.0421.C36.o1.tc	Method	TBLASTX:Cress
Start	1308	End	1591
GI	none	Score	93
Exons	1308..1358, 1360..1470, 1376..1456, 1477..1590, 1481..1591		

Seq. No.	51529	Seq. ID	OJ990821_42.0421.C36
Gene No.	109180	Strand	-
Start	437	End	6800

Name	OJ990821_42.0421.C36.o1.ts	Method	TBLASTX:Soybean
Start	1308	End	1591
GI	none	Score	39
Exons	1308..1358, 1324..1353, 1354..1458, 1360..1458, 1477..1590, 1478..1591		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109181	Strand	+
Start	54	End	408
Name	OJ990821_42.0421.C37.o1.gs	Method	GENSCAN
Start	54	End	408
GI	none	Score	.91
Exons	54..146, 286..408		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109182	Strand	+
Start	656	End	3764
Name	OJ990821_42.0421.C37.o1.np	Method	AAT/NAP
Start	656	End	3764
GI	7228438	Score	495
Exons	656..717, 795..1194, 1275..1568, 1663..1896, 1978..2186, 3700..3764		

GI Descrip. (AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109183	Strand	+
Start	13575	End	18996
Name	OJ990821_42.0421.C37.o2.np	Method	AAT/NAP
Start	13575	End	18996
GI	7487187	Score	1281
Exons	13575..13725, 14684..14866, 15150..16360, 16391..17085, 17120..17491, 18542..18809, 18899..18996		

GI Descrip. hypothetical protein T19K4.250 - Arabidopsis thaliana gi|3036816|emb|CAA18506.1| (AL022373) myosin-like protein [Arabidopsis thaliana] gi|7270564|emb|CAB81521.1| (AL161588) myosin-like protein [Arabidopsis thaliana]

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109183	Strand	+
Start	13575	End	18996
Name	OJ990821_42.0421.C37.o1.gp	Method	AAT/GAP
Start	15185	End	15576
GI	426310	Score	728
Exons	15185..15576		
GI Descrip.	3036816/emb CAA18506 3.0e-29 (AL022373) myosin-like protein [Arabidopsis thaliana]		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109184	Strand	-
Start	18991	End	19567
Name	OJ990821_42.0421.C37.o2.gp	Method	AAT/GAP
Start	18991	End	19567
GI	3769037	Score	974
Exons	18991..19509, 19542..19567		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109185	Strand	-
Start	20144	End	20629
Name	OJ990821_42.0421.C37.o5.gs	Method	GENSCAN
Start	20144	End	20629
GI	none	Score	.98
Exons	20144..20629		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109186	Strand	-
Start	21443	End	24168
Name	OJ990821_42.0421.C37.o6.gs	Method	GENSCAN
Start	21443	End	24168
GI	none	Score	.44
Exons	21443..21667, 21789..21837, 21929..22068, 22220..22258, 22292..22426, 24163..24168		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109187	Strand	-
Start	27841	End	28242
Name	OJ990821_42.0421.C37.o1.tw	Method	TBLASTX:Wheat
Start	14817	End	15467
GI	none	Score	74
Exons	14817..14870, 14818..14868, 15143..15277, 15147..15281, 15148..15282, 15149..15283, 15279..15308, 15280..15309, 15289..15450, 15305..15466, 15306..15467		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109187	Strand	-
Start	27841	End	28242
Name	OJ990821_42.0421.C37.o1.tm	Method	TBLASTX:Maize
Start	15305	End	18991
GI	none	Score	87
Exons	15305..15376, 15306..15377, 15322..15387, 15323..15382, 15371..15481, 15384..15485, 15387..15485, 15464..15847, 15475..15900, 15477..15848, 15836..16072, 15837..16073, 15880..16101, 16044..16169, 16079..16171, 16080..16169, 16175..16363, 16176..16643, 16176..16415, 16448..16636, 16674..17105, 16684..16719, 16701..17033, 16813..17103, 16994..17122, 17105..17500, 17106..17492, 17194..17493, 18535..18627, 18542..18658, 18543..18638, 18635..18757, 18636..18758, 18779..18841, 18780..18980, 18854..18928, 18926..18991		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109187	Strand	-
Start	27841	End	28242
Name	OJ990821_42.0421.C37.o1.tc	Method	TBLASTX:Cress
Start	15345	End	15772
GI	none	Score	387
Exons	15345..15764, 15386..15712, 15716..15772, 15717..15761		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109187	Strand	-
Start	27841	End	28242
Name	OJ990821_42.0421.C37.o1.ts	Method	TBLASTX:Soybean
Start	15479	End	15797

GI	none	Score	400
Exons	15479..15790, 15480..15791, 15480..15797		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109187	Strand	-
Start	27841	End	28242
Name	OJ990821_42.0421.C37.o3.ts	Method	TBLASTX:Soybean
Start	15840	End	16347
GI	none	Score	50
Exons	15840..15884, 15885..16010, 15885..16010, 15887..16054, 16047..16235, 16115..16219, 16257..16325, 16273..16347		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109187	Strand	-
Start	27841	End	28242
Name	OJ990821_42.0421.C37.o2.ts	Method	TBLASTX:Soybean
Start	16722	End	17492
GI	none	Score	114
Exons	16722..17012, 17066..17377, 17079..17492, 17295..17492, 17394..17477		

Seq. No.	51530	Seq. ID	OJ990821_42.0421.C37
Gene No.	109187	Strand	-
Start	27841	End	28242
Name	OJ990821_42.0421.C37.o7.gs	Method	GENSCAN
Start	27841	End	28242
GI	none	Score	.8
Exons	27841..28242		

Seq. No.	51531	Seq. ID	OJ990821_42.0421.C38
Gene No.	109188	Strand	-
Start	125	End	640
Name	OJ990821_42.0421.C38.o1.gs	Method	GENSCAN
Start	125	End	628
GI	none	Score	.91
Exons	125..628		

Seq. No.	51531	Seq. ID	OJ990821_42.0421.C38
Gene No.	109188	Strand	-
Start	125	End	640
Name	OJ990821_42.0421.C38.o1.np	Method	AAT/NAP
Start	221	End	640
GI	2583113	Score	477
Exons	221..640		
GI Descrip.	(AC002387) unknown protein [Arabidopsis thaliana]		

Seq. No.	51531	Seq. ID	OJ990821_42.0421.C38
Gene No.	109188	Strand	-
Start	125	End	640
Name	OJ990821_42.0421.C38.o1.tc	Method	TBLASTX:Cress
Start	305	End	533
GI	none	Score	209
Exons	305..337, 368..532, 369..533		

Seq. No.	51531	Seq. ID	OJ990821_42.0421.C38
Gene No.	109188	Strand	-
Start	125	End	640

Name OJ990821_42.0421.C38.o1.tm
 Start 311
 GI none
 Exons 311..532, 315..533

Method TBLASTX:Maize
 End 533
 Score 226

Seq. No. 51531
 Gene No. 109188
 Start 125
 Name OJ990821_42.0421.C38.o1.ts
 Start 354
 GI none
 Exons 354..533, 359..532

Seq. ID OJ990821_42.0421.C38
 Strand -
 End 640
 Method TBLASTX:Soybean
 End 533
 Score 143

Seq. No. 51532
 Gene No. 109189
 Start 70
 Name OJ990821_42.0421.C39.o1.gs
 Start 70
 GI none
 Exons 70..116, 1400..1568

Seq. ID OJ990821_42.0421.C39
 Strand +
 End 1568
 Method GENSCAN
 End 1568
 Score .4

Seq. No. 51533
 Gene No. 109190
 Start 491
 Name OJ990531_35.0420.C9.o1.np
 Start 491
 GI 2498930
 Exons 491..551, 719..1132

Seq. ID OJ990531_35.0420.C9
 Strand +
 End 1132
 Method AAT/NAP
 End 1132
 Score 742

GI Descrip. DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]

Seq. No. 51534
 Gene No. 109191
 Start 651
 Name OJ990531_35.0420.C13.o1.np
 Start 651
 GI 7489783
 Exons 651..796, 890..961, 1044..1118, 1201..1272, 1360..1431, 1556..1627, 1708..1773, 1852..1917, 1994..2283, 2377..2660, 2995..3266, 3716..3851, 4145..4275, 4383..4408

Seq. ID OJ990531_35.0420.C13
 Strand +
 End 4408
 Method AAT/NAP
 End 4408
 Score 2236

GI Descrip. leucine-rich repeat transmembrane protein kinase 1 - maize (fragment) gi|3360289|gb|AAC27894.1| (AF023164) leucine-rich repeat transmembrane protein kinase 1 [Zea mays]

Seq. No. 51534
 Gene No. 109191
 Start 651
 Name OJ990531_35.0420.C13.o1.gp
 Start 663
 GI 49249_1.R1084
 Exons 663..796, 890..961, 1044..1118, 1201..1272, 1360..1431, 1556..1627, 1708..1773, 1852..1917, 1994..2283, 2377..2531

Seq. ID OJ990531_35.0420.C13
 Strand +
 End 4408
 Method AAT/GAP
 End 2531
 Score 1934

GI Descrip. '3360289 1.0e-126 (AF023164) leucine-rich repeat transmembrane protein kinase 1 [Zea mays]'

Seq. No. 51534
 Gene No. 109191

Seq. ID OJ990531_35.0420.C13
 Strand +

Start	651	End	4408
Name	OJ990531_35.0420.C13.o2.tm	Method	TBLASTX:Maize
Start	663	End	1624
GI	none	Score	186
Exons	663..773, 664..783, 665..796, 671..796, 891..974, 892..960, 894..1001, 1044..1118, 1045..1119, 1181..1270, 1200..1271, 1201..1272, 1202..1273, 1348..1443, 1361..1405, 1368..1409, 1566..1619, 1571..1624, 1572..1622		

Seq. No.	51534	Seq. ID	OJ990531_35.0420.C13
Gene No.	109191	Strand	+
Start	651	End	4408
Name	OJ990531_35.0420.C13.o1.gs	Method	GENSCAN
Start	664	End	4275
GI	none	Score	.93
Exons	664..796, 890..961, 1044..1118, 1708..1773, 1852..1917, 1994..2283, 2377..2660, 2995..3266, 3716..3851, 4145..4275		

Seq. No.	51534	Seq. ID	OJ990531_35.0420.C13
Gene No.	109191	Strand	+
Start	651	End	4408
Name	OJ990531_35.0420.C13.o2.tc	Method	TBLASTX:Cress
Start	666	End	1273
GI	none	Score	155
Exons	666..773, 695..796, 887..916, 891..971, 1045..1071, 1202..1273		

Seq. No.	51534	Seq. ID	OJ990531_35.0420.C13
Gene No.	109191	Strand	+
Start	651	End	4408
Name	OJ990531_35.0420.C13.o1.tw	Method	TBLASTX:Wheat
Start	1361	End	1918
GI	none	Score	67
Exons	1361..1405, 1372..1437, 1372..1461, 1537..1614, 1556..1630, 1557..1628, 1708..1779, 1709..1771, 1841..1918, 1852..1917		

Seq. No.	51534	Seq. ID	OJ990531_35.0420.C13
Gene No.	109191	Strand	+
Start	651	End	4408
Name	OJ990531_35.0420.C13.o2.ts	Method	TBLASTX:Soybean
Start	1556	End	1906
GI	none	Score	82
Exons	1556..1630, 1557..1628, 1702..1758, 1705..1779, 1709..1768, 1709..1786, 1852..1905, 1853..1906		

Seq. No.	51534	Seq. ID	OJ990531_35.0420.C13
Gene No.	109191	Strand	+
Start	651	End	4408
Name	OJ990531_35.0420.C13.o1.tm	Method	TBLASTX:Maize
Start	2094	End	4408
GI	none	Score	174
Exons	2094..2282, 2138..2284, 2367..2474, 2375..2494, 2376..2495, 2451..2663, 2477..2662, 2479..2664, 2983..3147, 2992..3267, 2993..3268, 2994..3269, 3190..3270, 3716..3859, 3717..3851, 3721..3852, 4142..4273, 4144..4275, 4376..4408, 4380..4406		

Seq. No.	51534	Seq. ID	OJ990531_35.0420.C13
Gene No.	109191	Strand	+

Start	651	End	4408
Name	OJ990531_35.0420.C13.o1.ts	Method	TBLASTX:Soybean
Start	2375	End	4275
GI	none	Score	213
Exons	2375..2662, 2382..2663, 2992..3063, 2994..3053, 3052..3267, 3075..3269, 3537..3593, 3716..3826, 3717..3842, 3721..3843, 3723..3842, 4160..4273, 4162..4275		

Seq. No.	51534	Seq. ID	OJ990531_35.0420.C13
Gene No.	109191	Strand	+
Start	651	End	4408
Name	OJ990531_35.0420.C13.o1.tc	Method	TBLASTX:Cress
Start	2388	End	3823
GI	none	Score	64
Exons	2388..2531, 2451..2663, 2454..2552, 2504..2662, 2554..2664, 2992..3267, 2994..3269, 3048..3284, 3410..3436, 3716..3823, 3717..3821		

Seq. No.	51534	Seq. ID	OJ990531_35.0420.C13
Gene No.	109191	Strand	+
Start	651	End	4408
Name	OJ990531_35.0420.C13.o2.gp	Method	AAT/GAP
Start	3979	End	4408
GI	40641_1.R1084	Score	262
Exons	3979..4010, 4142..4275, 4383..4408		
GI Descrip.	'3360289 3.0e-42 (AF023164) leucine-rich repeat transmembrane protein kinase 1 [Zea mays]'		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109192	Strand	+
Start	1	End	457
Name	OJ990531_35.0420.C14.o1.np	Method	AAT/NAP
Start	1	End	198
GI	7489784	Score	175
Exons	1..198		
GI Descrip.	leucine-rich repeat transmembrane protein kinase 2 - maize gi 3360291 gb AAC27895.1 (AF023165) leucine-rich repeat transmembrane protein kinase 2 [Zea mays]		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109192	Strand	+
Start	1	End	457
Name	OJ990531_35.0420.C14.o1.gp	Method	AAT/GAP
Start	58	End	457
GI	40641_1.R1084	Score	742
Exons	58..457		
GI Descrip.	'3360289 3.0e-42 (AF023164) leucine-rich repeat transmembrane protein kinase 1 [Zea mays]'		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109192	Strand	+
Start	1	End	457
Name	OJ990531_35.0420.C14.o1.gs	Method	GENSCAN
Start	58	End	201
GI	none	Score	.74
Exons	58..201		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109193	Strand	+
Start	7600	End	17495
Name	OJ990531_35.0420.C14.o3.gs	Method	GENSCAN
Start	7600	End	17495
GI	none	Score	.66
Exons	7600..7728, 7878..8010, 8905..9060, 9279..9427, 9931..10050, 10236..10449, 10566..10638, 10990..11035, 11370..11557, 11666..11828, 14258..14353, 14538..14705, 15118..15520, 15957..16063, 16181..16242, 16784..16914, 16935..17051, 17479..17495		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109193	Strand	+
Start	7600	End	17495
Name	OJ990531_35.0420.C14.o2.gp	Method	AAT/GAP
Start	7626	End	12312
GI	841 1.R1084	Score	3630
Exons	7626..7803, 7878..8010, 8125..8213, 8362..8419, 8905..9060, 9279..9427, 9931..10050, 10236..10449, 10536..10638, 10745..10792, 10990..11035, 11370..11557, 11666..11828, 11950..12312		

GI Descrip. '4105639/gb|AAD02489.1| 0.0e+00 (AF049356) phytoene desaturase precursor [Oryza sativa]'

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109193	Strand	+
Start	7600	End	17495
Name	OJ990531_35.0420.C14.o3.np	Method	AAT/NAP
Start	7636	End	12012
GI	4105639	Score	2521
Exons	7636..7803, 7878..8010, 8125..8213, 8362..8419, 8905..9060, 9279..9427, 9931..10050, 10236..10449, 10536..10638, 10745..10792, 10990..11035, 11370..11557, 11666..11828, 11950..12012		

GI Descrip. (AF049356) phytoene desaturase precursor [Oryza sativa]

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109193	Strand	+
Start	7600	End	17495
Name	OJ990531_35.0420.C14.o3.gp	Method	AAT/GAP
Start	14181	End	15250
GI	none	Score	949
Exons	14181..14353, 14492..14705, 15118..15250		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109193	Strand	+
Start	7600	End	17495
Name	OJ990531_35.0420.C14.o4.gp	Method	AAT/GAP
Start	16017	End	16599
GI	none	Score	904
Exons	16017..16063, 16181..16599		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109194	Strand	+
Start	18068	End	18282
Name	OJ990531_35.0420.C14.o5.gp	Method	AAT/GAP

Start 18068
GI 3107396
Exons 18068..18282

End 18282
Score 426

Seq. No. 51535
Gene No. 109195
Start 26366
Name OJ990531_35.0420.C14.o6.gp
Start 26366
GI none
Exons 26366..26726

Seq. ID OJ990531_35.0420.C14
Strand +
End 26726
Method AAT/GAP
End 26726
Score 666

Seq. No. 51535
Gene No. 109196
Start 722
Name OJ990531_35.0420.C14.o2.gs
Start 722
GI none
Exons 722..818, 1066..1244, 1370..1552, 1667..1828, 1936..2096, 2193..2355, 2478..2884, 2960..3104, 3206..3376, 3427..3750, 3841..3960, 4292..4498, 4529..4759, 4874..5008, 5105..5242, 5353..5451, 5555..5674, 5752..5829, 6764..6838

Seq. ID OJ990531_35.0420.C14
Strand -
End 6838
Method GENSCAN
End 6838
Score .79

Seq. No. 51535
Gene No. 109196
Start 722
Name OJ990531_35.0420.C14.o2.np
Start 725
GI 5669167
Exons 725..818, 1066..1244, 1370..1552, 1667..1840, 1936..2096, 2193..2274, 2349..2381, 2478..2884, 2960..3104, 3206..3310, 3427..3549, 3631..3750, 3841..3960, 4292..4498, 4580..4759, 4874..5008, 5105..5242, 5353..5451, 5555..5674, 5752..5817
GI Descrip. (AF156691) plasma membrane proton ATPase [Nicotiana plumbaginifolia]

Seq. ID OJ990531_35.0420.C14
Strand -
End 6838
Method AAT/NAP
End 5817
Score 3166

Seq. No. 51535
Gene No. 109197
Start 17760
Name OJ990531_35.0420.C14.o7.tm
Start 52
GI none
Exons 52..177, 55..162, 90..209, 160..204, 233..307, 297..341, 299..334, 369..404

Seq. ID OJ990531_35.0420.C14
Strand -
End 27119
Method TBLASTX:Maize
End 404
Score 190

Seq. No. 51535
Gene No. 109197
Start 17760
Name OJ990531_35.0420.C14.o1.ts
Start 713
GI none
Exons 713..820, 1370..1567, 1392..1553, 1664..1834, 1665..1829, 1928..2107, 1930..2109, 2191..2271, 2349..2381, 2475..2675, 2479..2643, 2688..2894, 2707..2727, 2803..2904, 2958..3107, 2959..3105, 2964..3116, 3200..3313

Seq. ID OJ990531_35.0420.C14
Strand -
End 27119
Method TBLASTX:Soybean
End 3313
Score 133

Seq. No. 51535
Seq. ID OJ990531_35.0420.C14

Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o1.tc	Method	TBLASTX:Cress
Start	722	End	5675
GI	none	Score	100
Exons	722..820, 1370..1552, 1374..1553, 1664..1834, 1665..1829, 1667..1834, 1904..2098, 1939..2109, 2191..2271, 2192..2284, 2349..2381, 2475..2636, 2479..2637, 2619..2675, 2688..2894, 2707..2724, 2803..2895, 2958..3101, 2959..3105, 3200..3337, 3424..3552, 3428..3550, 3626..3697, 3631..3753, 3838..3963, 3839..3964, 3840..3968, 3875..3964, 4292..4501, 4293..4499, 4574..4759, 4578..4760, 4581..4760, 4874..5011, 4875..5009, 5099..5248, 5102..5248, 5356..5454, 5357..5452, 5550..5675, 5555..5674		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o1.tm	Method	TBLASTX:Maize
Start	722	End	5632
GI	none	Score	97
Exons	722..820, 1370..1552, 1395..1553, 1664..1834, 1665..1829, 1904..2098, 1930..2109, 2191..2271, 2191..2274, 2192..2284, 2331..2381, 2338..2382, 2346..2381, 2475..2675, 2479..2643, 2688..2894, 2700..2768, 2707..2904, 2957..3106, 2958..3107, 2959..3105, 3200..3337, 3213..3272, 3424..3552, 3427..3537, 3428..3538, 3631..3753, 3632..3697, 3836..3976, 3838..3963, 4251..4499, 4292..4501, 4574..4759, 4577..4753, 4587..4763, 4874..5011, 4923..5009, 5099..5248, 5102..5248, 5348..5452, 5353..5454, 5555..5632		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o1.tw	Method	TBLASTX:Wheat
Start	1526	End	3266
GI	none	Score	146
Exons	1526..1552, 1664..1834, 1665..1829, 1914..2093, 1930..2109, 1940..2098, 2191..2274, 2192..2284, 2346..2381, 2363..2401, 2475..2675, 2479..2643, 2688..2894, 2700..2768, 2803..2904, 2958..3107, 2959..3105, 3186..3266, 3200..3259		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o2.ts	Method	TBLASTX:Soybean
Start	3423	End	4951
GI	none	Score	76
Exons	3423..3524, 3424..3552, 3424..3552, 3626..3697, 3631..3720, 3631..3753, 3836..3976, 3838..3963, 4290..4478, 4292..4501, 4293..4499, 4574..4759, 4578..4760, 4868..4948, 4874..4951		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o4.tw	Method	TBLASTX:Wheat
Start	3836	End	4471

GI	none	Score	141
Exons	3836..3964, 3838..3963, 4292..4471, 4293..4466		
Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o3.tw	Method	TBLASTX:Wheat
Start	4472	End	5218
GI	none	Score	219
Exons	4472..4501, 4574..4759, 4578..4760, 4868..5011, 4874..5011, 5099..5212, 5102..5218		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o4.ts	Method	TBLASTX:Soybean
Start	4952	End	5674
GI	none	Score	91
Exons	4952..5011, 5102..5248, 5120..5230, 5348..5452, 5353..5454, 5550..5666, 5555..5674		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o5.tw	Method	TBLASTX:Wheat
Start	5353	End	5675
GI	none	Score	84
Exons	5353..5454, 5354..5452, 5550..5675, 5555..5674		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o2.tm	Method	TBLASTX:Maize
Start	7512	End	8210
GI	none	Score	169
Exons	7512..7697, 7585..7734, 7716..7805, 7717..7806, 7849..8010, 7871..8011, 7872..8015, 8122..8208, 8123..8209, 8139..8210		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o2.tc	Method	TBLASTX:Cress
Start	7871	End	11828
GI	none	Score	174
Exons	7871..8011, 7872..8015, 8111..8212, 8139..8216, 8359..8418, 8360..8419, 8361..8420, 8906..9061, 8907..9062, 9271..9426, 9272..9427, 9282..9428, 9283..9429, 9300..9437, 9927..10052, 9928..10050, 9928..10053, 9930..10052, 10233..10454, 10235..10459, 10236..10469, 10533..10640, 10534..10644, 10535..10639, 10539..10640, 10540..10641, 10737..10793, 10737..10796, 10988..11035, 11367..11558, 11367..11555, 11369..11560, 11369..11557, 11663..11824, 11664..11828		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o3.ts	Method	TBLASTX:Soybean

Start	7872	End	11829
GI	none	Score	169
Exons	7872..8015, 7877..8011, 8111..8215, 8122..8214, 8139..8216, 8359..8418, 8906..9061, 8907..9062, 9272..9427, 9277..9426, 9279..9428, 9280..9429, 9492..9518, 9927..10052, 9928..10050, 9930..10052, 10225..10407, 10234..10386, 10235..10459, 10236..10469, 10533..10640, 10534..10644, 10535..10639, 10540..10641, 10737..10793, 10743..10796, 10745..10798, 10753..10797, 10988..11035, 11367..11558, 11369..11560, 11369..11557, 11663..11812, 11664..11828, 11667..11828, 11671..11829		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o6.tm	Method	TBLASTX:Maize
Start	8359	End	10361
GI	none	Score	113
Exons	8359..8418, 8363..8419, 8892..9050, 8900..9061, 8906..9061, 8907..9062, 9270..9362, 9272..9427, 9277..9426, 9282..9428, 9927..10052, 9928..10050, 10233..10283, 10235..10285, 10236..10283, 10279..10350, 10284..10361, 10286..10360		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o2.tw	Method	TBLASTX:Wheat
Start	10987	End	12022
GI	none	Score	66
Exons	10987..11037, 10989..11036, 11361..11567, 11367..11558, 11369..11563, 11663..11824, 11664..11828, 11670..11828, 11671..11829, 11947..12021, 11948..12022, 11955..12020		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o4.tm	Method	TBLASTX:Maize
Start	11505	End	12023
GI	none	Score	84
Exons	11505..11558, 11505..11552, 11663..11824, 11664..11828, 11665..11829, 11665..11829, 11947..11994, 11949..11993, 11994..12023		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o3.tm	Method	TBLASTX:Maize
Start	14594	End	15452
GI	none	Score	99
Exons	14594..14701, 14634..14705, 14636..14707, 15115..15222, 15117..15212, 15217..15267, 15225..15266, 15247..15438, 15264..15443, 15265..15438, 15267..15452		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o4.gs	Method	GENSCAN

Start	17760	End	27112
GI	none	Score	.41
Exons	17760..17963, 17969..18096, 18305..18364, 18459..18623, 18648..18719, 19459..19699, 19708..19836, 20040..20256, 24086..24187, 26389..26759, 26822..27112		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o4.np	Method	AAT/NAP
Start	17779	End	27110
GI	1362587	Score	163
Exons	17779..17978, 26955..27110		
GI Descrip.	spermatid-specific protein T2 precursor - longfin squid		

Seq. No.	51535	Seq. ID	OJ990531_35.0420.C14
Gene No.	109197	Strand	-
Start	17760	End	27119
Name	OJ990531_35.0420.C14.o5.tm	Method	TBLASTX:Maize
Start	26549	End	27119
GI	none	Score	61
Exons	26549..26605, 26595..26636, 26631..26654, 26658..26714, 26907..27119, 26916..27119		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109198	Strand	+
Start	1	End	2945
Name	OJ990531_35.0420.C15.o1.gp	Method	AAT/GAP
Start	1	End	2945
GI	uC-osroM202028g08a1	Score	138
Exons	1..26, 2893..2945		
GI Descrip.	'4490301 emb CAB38792.1 3.0e-28 (AL035678) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109199	Strand	+
Start	2850	End	3848
Name	OJ990531_35.0420.C15.o1.np	Method	AAT/NAP
Start	2850	End	3848
GI	7485664	Score	1093
Exons	2850..3848		
GI Descrip.	hypothetical protein F17M5.90 - Arabidopsis thaliana gi 4490300 emb CAB38791.1 (AL035678) putative protein [Arabidopsis thaliana] gi 7270281 emb CAB80050.1 (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109199	Strand	+
Start	2850	End	3848
Name	OJ990531_35.0420.C15.o1.gs	Method	GENSCAN
Start	2893	End	3836
GI	none	Score	.99
Exons	2893..3836		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109200	Strand	+
Start	4637	End	7691

Name	OJ990531_35.0420.C15.o2.gp	Method	AAT/GAP
Start	4637	End	5406
GI	none	Score	867
Exons	4637..4830, 5135..5406		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109200	Strand	+
Start	4637	End	7691
Name	OJ990531_35.0420.C15.o2.np	Method	AAT/NAP
Start	4693	End	7492
GI	6671958	Score	936
Exons	4693..4771, 5135..5675, 5757..6220, 6642..6777, 6897..6968, 7058..7126, 7221..7292, 7382..7492		
GI Descrip.	(AC013454) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109200	Strand	+
Start	4637	End	7691
Name	OJ990531_35.0420.C15.o2.gs	Method	GENSCAN
Start	5095	End	7691
GI	none	Score	.46
Exons	5095..5675, 5757..6220, 6642..6777, 7058..7126, 7221..7292, 7382..7453, 7640..7691		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o1.tm	Method	TBLASTX:Maize
Start	2949	End	3778
GI	none	Score	1370
Exons	2949..3776, 2966..3778		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o2.tw	Method	TBLASTX:Wheat
Start	2955	End	3131
GI	none	Score	179
Exons	2955..3131, 2966..3079		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o1.tc	Method	TBLASTX:Cress
Start	3002	End	3629
GI	none	Score	84
Exons	3002..3061, 3003..3068, 3105..3515, 3152..3499, 3516..3581, 3585..3629		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o1.ts	Method	TBLASTX:Soybean
Start	3104	End	3518
GI	none	Score	517
Exons	3104..3217, 3105..3518, 3284..3496, 3309..3497		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o1.tw	Method	TBLASTX:Wheat
Start	3426	End	3815
GI	none	Score	118
Exons	3426..3530, 3432..3497, 3516..3815, 3569..3688		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o3.ts	Method	TBLASTX:Soybean
Start	3585	End	3824
GI	none	Score	203
Exons	3585..3773, 3587..3700, 3774..3824		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o2.ts	Method	TBLASTX:Soybean
Start	5122	End	5412
GI	none	Score	284
Exons	5122..5394, 5148..5354, 5209..5412		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o3.tm	Method	TBLASTX:Maize
Start	5451	End	5841
GI	none	Score	88
Exons	5451..5570, 5452..5661, 5454..5660, 5647..5676, 5742..5825, 5763..5825, 5764..5841		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o4.tm	Method	TBLASTX:Maize
Start	5844	End	6107
GI	none	Score	282
Exons	5844..6107, 5848..6105		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o5.tm	Method	TBLASTX:Maize
Start	7040	End	7432
GI	none	Score	58
Exons	7040..7135, 7052..7111, 7056..7136, 7056..7136, 7167..7298, 7216..7299, 7217..7318, 7217..7309, 7373..7432, 7380..7430		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o3.gp	Method	AAT/GAP
Start	7954	End	8845
GI	none	Score	1252
Exons	7954..8247, 8361..8567, 8666..8845		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o3.gs	Method	GENSCAN
Start	8197	End	8964
GI	none	Score	.81
Exons	8197..8247, 8361..8567, 8666..8840, 8957..8964		

Seq. No.	51536	Seq. ID	OJ990531_35.0420.C15
Gene No.	109201	Strand	-
Start	7954	End	8991
Name	OJ990531_35.0420.C15.o2.tm	Method	TBLASTX:Maize
Start	8366	End	8991
GI	none	Score	138
Exons	8366..8560, 8367..8561, 8367..8567, 8375..8569, 8622..8657, 8665..8841, 8666..8857, 8667..8843, 8771..8854, 8956..8991		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109202	Strand	+
Start	1651	End	5924
Name	OJ990531_35.0420.C16.o1.np	Method	AAT/NAP
Start	1651	End	3380
GI	7431376	Score	983
Exons	1651..1794, 1822..1971, 2134..2262, 2471..2635, 2781..3086, 3243..3380		
GI Descrip.	hypothetical protein F17M5.120 - Arabidopsis thaliana gi 4490303 emb CAB38794.1 (AL035678) putative protein [Arabidopsis thaliana] gi 7270284 emb CAB80053.1 (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109202	Strand	+
Start	1651	End	5924
Name	OJ990531_35.0420.C16.o1.gs	Method	GENSCAN
Start	1687	End	5924
GI	none	Score	.76
Exons	1687..1971, 2134..2262, 2471..2635, 2781..3086, 3648..4001, 4283..4411, 5089..5253, 5784..5924		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109202	Strand	+
Start	1651	End	5924
Name	OJ990531_35.0420.C16.o2.np	Method	AAT/NAP
Start	3708	End	5921
GI	7431376	Score	1086
Exons	3708..4001, 4283..4413, 5091..5253, 5390..5695, 5784..5921		
GI Descrip.	hypothetical protein F17M5.120 - Arabidopsis thaliana gi 4490303 emb CAB38794.1 (AL035678) putative protein [Arabidopsis thaliana] gi 7270284 emb CAB80053.1 (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109202	Strand	+
Start	1651	End	5924
Name	OJ990531_35.0420.C16.o1.gp	Method	AAT/GAP
Start	4271	End	5407

GI LIB3432-040-P1-K1-D4 Score 835
 Exons 4271..4411, 5089..5407
 GI Descrip. '4490303/emb|CAB38794.1| 4.0e-27 (AL035678) putative protein
 [Arabidopsis thaliana]'

Seq. No. 51537 Seq. ID OJ990531_35.0420.C16
 Gene No. 109203 Strand +
 Start 5879 End 6113
 Name OJ990531_35.0420.C16.o2.gp Method AAT/GAP
 Start 5879 End 6113
 GI 427687 Score 422
 Exons 5879..6113

Seq. No. 51537 Seq. ID OJ990531_35.0420.C16
 Gene No. 109204 Strand -
 Start 6726 End 15252
 Name OJ990531_35.0420.C16.o2.tm Method TBLASTX:Maize
 Start 1680 End 4393
 GI none Score 144
 Exons 1680..1787, 1681..1821, 1717..1821, 1831..1992, 1843..1980,
 2128..2196, 2163..2195, 2190..2243, 2191..2244, 2193..2240,
 3743..3769, 3842..4009, 3843..4010, 4280..4345, 4282..4344,
 4340..4393, 4342..4392, 4343..4393

Seq. No. 51537 Seq. ID OJ990531_35.0420.C16
 Gene No. 109204 Strand -
 Start 6726 End 15252
 Name OJ990531_35.0420.C16.o2.tc Method TBLASTX:Cress
 Start 1686 End 5855
 GI none Score 108
 Exons 1686..1784, 1687..1821, 1831..2022, 2134..2229, 2507..2638,
 2509..2649, 2770..2961, 2780..3031, 2781..3035, 3240..3269,
 3270..3314, 3843..4010, 3845..4009, 4277..4378, 4282..4377,
 5125..5262, 5127..5270, 5389..5655, 5390..5653, 5777..5809,
 5781..5810, 5811..5855

Seq. No. 51537 Seq. ID OJ990531_35.0420.C16
 Gene No. 109204 Strand -
 Start 6726 End 15252
 Name OJ990531_35.0420.C16.o3.ts Method TBLASTX:Soybean
 Start 1687 End 4435
 GI none Score 92
 Exons 1687..1821, 1831..2022, 1831..1968, 2128..2265, 2166..2255,
 3843..4010, 3911..4009, 4282..4416, 4283..4435, 4283..4435

Seq. No. 51537 Seq. ID OJ990531_35.0420.C16
 Gene No. 109204 Strand -
 Start 6726 End 15252
 Name OJ990531_35.0420.C16.o2.ts Method TBLASTX:Soybean
 Start 2781 End 5671
 GI none Score 208
 Exons 2781..3062, 2786..3061, 5365..5670, 5390..5671

Seq. No. 51537 Seq. ID OJ990531_35.0420.C16
 Gene No. 109204 Strand -
 Start 6726 End 15252
 Name OJ990531_35.0420.C16.o1.tm Method TBLASTX:Maize

Start	2979	End	6158
GI	none	Score	162
Exons	2979..3086, 2980..3084, 2981..3100, 2984..3100, 3245..3388, 3246..3413, 5588..5707, 5592..5693, 5597..5695, 5783..5929, 5784..5945, 6000..6077, 6117..6158		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109204	Strand	-
Start	6726	End	15252
Name	OJ990531_35.0420.C16.o3.gp	Method	AAT/GAP
Start	6353	End	6861
GI	3768922	Score	697
Exons	6353..6703, 6779..6861		
GI Descrip.	2498706/sp Q38899 ORC2_ARATH 2.0e-16 ORIGIN RECOGNITION COMPLEX SUBUNIT 2 >gi_1113103 (U40269) atOrc2p [Arabidopsis thaliana] >gi_3236239 (AC004684) origin recognition complex protein [Arabidopsis thaliana]		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109204	Strand	-
Start	6726	End	15252
Name	OJ990531_35.0420.C16.o3.np	Method	AAT/NAP
Start	6507	End	8489
GI	2498706	Score	983
Exons	6507..6703, 6779..7006, 7082..7373, 7940..8072, 8154..8260, 8346..8489		
GI Descrip.	ORIGIN RECOGNITION COMPLEX SUBUNIT 2 gi 1113103 (U40269) atOrc2p [Arabidopsis thaliana] gi 3236239 gb AAC23627.1 (AC004684) origin recognition complex protein [Arabidopsis thaliana]		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109204	Strand	-
Start	6726	End	15252
Name	OJ990531_35.0420.C16.o1.tc	Method	TBLASTX:Cress
Start	6513	End	8450
GI	none	Score	147
Exons	6513..6704, 6538..6705, 6753..7010, 6754..7005, 6794..7009, 7081..7287, 7083..7376, 7937..8086, 7938..8075, 8151..8273, 8153..8263, 8338..8391, 8346..8405, 8421..8450		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109204	Strand	-
Start	6726	End	15252
Name	OJ990531_35.0420.C16.o2.gs	Method	GENSCAN
Start	6726	End	15252
GI	none	Score	.66
Exons	6726..7006, 7082..7373, 7940..8072, 8154..8296, 8346..8617, 9098..9127, 9436..9500, 9571..9674, 10196..10459, 13244..13472, 13509..13749, 13861..14089, 14191..14369, 15183..15252		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109204	Strand	-
Start	6726	End	15252
Name	OJ990531_35.0420.C16.o3.tm	Method	TBLASTX:Maize
Start	6780	End	7160
GI	none	Score	214
Exons	6780..6992, 6781..6993, 6814..6996, 6836..6997, 7081..7158,		

7083..7160

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109204	Strand	-
Start	6726	End	15252
Name	OJ990531_35.0420.C16.o1.ts	Method	TBLASTX:Soybean
Start	6894	End	7233
GI	none	Score	121
Exons	6894..7004, 6895..7002, 6902..7006, 7081..7233, 7083..7232		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109204	Strand	-
Start	6726	End	15252
Name	OJ990531_35.0420.C16.o4.gp	Method	AAT/GAP
Start	7084	End	8417
GI	920_1.R1084	Score	1049
Exons	7084..7373, 7940..8072, 8154..8260, 8346..8417		
GI Descrip.	'2498706/sp Q38899 ORC2_ARATH 2.0e-16 ORIGIN RECOGNITION COMPLEX SUBUNIT 2 >gi_1113103 (U40269) atOrc2p [Arabidopsis thaliana] >gi_3236239 (AC004684) origin recognition complex protein [Arabidopsis thaliana]'		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109204	Strand	-
Start	6726	End	15252
Name	OJ990531_35.0420.C16.o5.gp	Method	AAT/GAP
Start	11705	End	11812
GI	uC-osflcyp088b12b1	Score	164
Exons	11705..11812		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	51537	Seq. ID	OJ990531_35.0420.C16
Gene No.	109204	Strand	-
Start	6726	End	15252
Name	OJ990531_35.0420.C16.o4.np	Method	AAT/NAP
Start	13483	End	14117
GI	3204132	Score	180
Exons	13483..13965, 14042..14117		
GI Descrip.	(AJ006770) extensin [Cicer arietinum]		

Seq. No.	51538	Seq. ID	OJ990531_35.0420.C17
Gene No.	109205	Strand	+
Start	1023	End	3290
Name	OJ990531_35.0420.C17.o1.gs	Method	GENSCAN
Start	1023	End	3290
GI	none	Score	.43
Exons	1023..1196, 1451..1628, 1785..1919, 3127..3290		

Seq. No.	51538	Seq. ID	OJ990531_35.0420.C17
Gene No.	109206	Strand	+
Start	7351	End	8322
Name	OJ990531_35.0420.C17.o1.gp	Method	AAT/GAP
Start	7351	End	7741
GI	none	Score	705
Exons	7351..7741		

Seq. No.	51538	Seq. ID	OJ990531_35.0420.C17
Gene No.	109206	Strand	+
Start	7351	End	8322
Name	OJ990531_35.0420.C17.o1.np	Method	AAT/NAP
Start	7411	End	8322
GI	1076413	Score	655
Exons	7411..8322		
GI Descrip.	serine O-acetyltransferase (EC 2.3.1.30) - Arabidopsis thaliana gi 2146776 pir S67482 serine O-acetyltransferase (EC 2.3.1.30) - Arabidopsis thaliana gi 608577 (L34076) serine acetyltransferase [Arabidopsis thaliana] gi 608677 emb CAA84371 (Z34888) serine acetyltransferase [Arabidopsis thaliana] gi 1093493 prf 2104212A Ser acetyltransferase [Arabidopsis thaliana]		

Seq. No.	51538	Seq. ID	OJ990531_35.0420.C17
Gene No.	109206	Strand	+
Start	7351	End	8322
Name	OJ990531_35.0420.C17.o1.tc	Method	TBLASTX:Cress
Start	7825	End	8238
GI	none	Score	421
Exons	7825..8238, 7938..8237		

Seq. No.	51538	Seq. ID	OJ990531_35.0420.C17
Gene No.	109206	Strand	+
Start	7351	End	8322
Name	OJ990531_35.0420.C17.o1.ts	Method	TBLASTX:Soybean
Start	7825	End	8238
GI	none	Score	217
Exons	7825..8043, 7938..8042, 8023..8238, 8049..8237		

Seq. No.	51538	Seq. ID	OJ990531_35.0420.C17
Gene No.	109206	Strand	+
Start	7351	End	8322
Name	OJ990531_35.0420.C17.o1.tm	Method	TBLASTX:Maize
Start	7864	End	8238
GI	none	Score	67
Exons	7864..8223, 7865..7969, 7891..8238, 7941..8237		

Seq. No.	51539	Seq. ID	OJ990531_35.0420.C18
Gene No.	109207	Strand	+
Start	1	End	2021
Name	OJ990531_35.0420.C18.o1.np	Method	AAT/NAP
Start	1	End	1422
GI	7340909	Score	157
Exons	1..25, 799..1157, 1277..1422		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	51539	Seq. ID	OJ990531_35.0420.C18
Gene No.	109207	Strand	+
Start	1	End	2021
Name	OJ990531_35.0420.C18.o1.gs	Method	GENSCAN
Start	1094	End	2021
GI	none	Score	.46
Exons	1094..1239, 1303..1444, 1926..2021		

Seq. No.	51540	Seq. ID	OJ990531_35.0420.C19
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Gene No.	109208	Strand	+
Start	1785	End	3688
Name	OJ990531_35.0420.C19.o1.gs	Method	GENSCAN
Start	1785	End	3688
GI	none	Score	.42
Exons	1785..1903, 2523..2598, 3512..3688		

Seq. No.	51540	Seq. ID	OJ990531_35.0420.C19
Gene No.	109209	Strand	-
Start	4956	End	6377
Name	OJ990531_35.0420.C19.o2.np	Method	AAT/NAP
Start	4163	End	5878
GI	7485066	Score	456
Exons	4163..4207, 4965..5878		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi 2244839 emb CAB10261.1 (Z97337) hypothetical protein [Arabidopsis thaliana] gi 7268228 emb CAB78524.1 (AL161540) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51540	Seq. ID	OJ990531_35.0420.C19
Gene No.	109209	Strand	-
Start	4956	End	6377
Name	OJ990531_35.0420.C19.o1.np	Method	AAT/NAP
Start	4942	End	6182
GI	2464864	Score	495
Exons	4942..6182		
GI Descrip.	(Z99707) putative protein [Arabidopsis thaliana]		

Seq. No.	51540	Seq. ID	OJ990531_35.0420.C19
Gene No.	109209	Strand	-
Start	4956	End	6377
Name	OJ990531_35.0420.C19.o2.gs	Method	GENSCAN
Start	4956	End	6377
GI	none	Score	.99
Exons	4956..6377		

Seq. No.	51540	Seq. ID	OJ990531_35.0420.C19
Gene No.	109209	Strand	-
Start	4956	End	6377
Name	OJ990531_35.0420.C19.o1.ts	Method	TBLASTX:Soybean
Start	4965	End	5411
GI	none	Score	120
Exons	4965..5411, 4972..5355		

Seq. No.	51540	Seq. ID	OJ990531_35.0420.C19
Gene No.	109209	Strand	-
Start	4956	End	6377
Name	OJ990531_35.0420.C19.o2.tm	Method	TBLASTX:Maize
Start	5019	End	5361
GI	none	Score	95
Exons	5019..5360, 5034..5210, 5050..5277, 5323..5361		

Seq. No.	51540	Seq. ID	OJ990531_35.0420.C19
Gene No.	109209	Strand	-
Start	4956	End	6377
Name	OJ990531_35.0420.C19.o1.tc	Method	TBLASTX:Cress
Start	5169	End	5834

GI	none	Score	139
Exons	5169..5543, 5173..5526, 5661..5834		

Seq. No.	51540	Seq. ID	OJ990531_35.0420.C19
Gene No.	109209	Strand	-
Start	4956	End	6377
Name	OJ990531_35.0420.C19.o1.tw	Method	TBLASTX:Wheat
Start	5283	End	6206
GI	none	Score	112
Exons	5283..5591, 5323..5553, 5337..5453, 5661..5882, 6024..6206		

Seq. No.	51540	Seq. ID	OJ990531_35.0420.C19
Gene No.	109209	Strand	-
Start	4956	End	6377
Name	OJ990531_35.0420.C19.o1.tm	Method	TBLASTX:Maize
Start	5364	End	6149
GI	none	Score	257
Exons	5364..5666, 5658..5924, 5658..6026, 5659..5991, 6012..6149, 6058..6144		

Seq. No.	51541	Seq. ID	OJ990531_35.0420.C20
Gene No.	109210	Strand	+
Start	6354	End	12603
Name	OJ990531_35.0420.C20.o1.np	Method	AAT/NAP
Start	6126	End	12051
GI	7452422	Score	2208
Exons	6126..6472, 6642..7049, 7896..9047, 9689..10798, 11180..11282, 11983..12051		

GI Descrip. hypothetical protein F10M10.80 - Arabidopsis thaliana
gi|4455176|emb|CAB36708.1| (AL035521) hypothetical protein
[Arabidopsis thaliana] gi|7270381|emb|CAB80148.1| (AL161585)
hypothetical protein [Arabidopsis thaliana]

Seq. No.	51541	Seq. ID	OJ990531_35.0420.C20
Gene No.	109210	Strand	+
Start	6354	End	12603
Name	OJ990531_35.0420.C20.o2.gs	Method	GENSCAN
Start	6354	End	12603
GI	none	Score	.7
Exons	6354..7052, 7896..9053, 9689..10798, 11180..11256, 11355..11439, 11672..11773, 11865..11963, 12478..12603		

Seq. No.	51541	Seq. ID	OJ990531_35.0420.C20
Gene No.	109211	Strand	-
Start	1290	End	4683
Name	OJ990531_35.0420.C20.o1.gp	Method	AAT/GAP
Start	440	End	558
GI	LIB3477-003-P1-K1-E9	Score	161
Exons	440..558		
GI Descrip.	'2498586/sp Q40638 MP01_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I)>gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	51541	Seq. ID	OJ990531_35.0420.C20
Gene No.	109211	Strand	-
Start	1290	End	4683
Name	OJ990531_35.0420.C20.o1.gs	Method	GENSCAN

Start	1290	End	4683
GI	none	Score	.84
Exons	1290..1445, 3210..3349, 3444..4362, 4516..4683		

Seq. No.	51541	Seq. ID	OJ990531_35.0420.C20
Gene No.	109212	Strand	
Start	8910	End	9806
Name	OJ990531_35.0420.C20.o3.tm	Method	TBLASTX:Maize
Start	8910	End	9806
GI	none	Score	226
Exons	8910..9053, 8911..9054, 8912..9052, 9686..9805, 9686..9805, 9687..9806		

Seq. No.	51541	Seq. ID	OJ990531_35.0420.C20
Gene No.	109213	Strand	
Start	10005	End	10447
Name	OJ990531_35.0420.C20.o1.tm	Method	TBLASTX:Maize
Start	10005	End	10447
GI	none	Score	100
Exons	10005..10091, 10005..10091, 10006..10092, 10013..10096, 10104..10445, 10144..10446, 10148..10447		

Seq. No.	51541	Seq. ID	OJ990531_35.0420.C20
Gene No.	109214	Strand	
Start	11485	End	11971
Name	OJ990531_35.0420.C20.o2.tm	Method	TBLASTX:Maize
Start	11485	End	11971
GI	none	Score	114
Exons	11485..11586, 11496..11588, 11498..11584, 11499..11588, 11671..11775, 11675..11776, 11858..11968, 11862..11969, 11865..11969, 11870..11971		

Seq. No.	51542	Seq. ID	OJ990531_35.0420.C21
Gene No.	109215	Strand	+
Start	170	End	753
Name	OJ990531_35.0420.C21.o1.gp	Method	AAT/GAP
Start	170	End	698
GI	none	Score	701
Exons	170..217, 375..698		

Seq. No.	51542	Seq. ID	OJ990531_35.0420.C21
Gene No.	109215	Strand	+
Start	170	End	753
Name	OJ990531_35.0420.C21.o1.gs	Method	GENSCAN
Start	376	End	753
GI	none	Score	.98
Exons	376..753		

Seq. No.	51542	Seq. ID	OJ990531_35.0420.C21
Gene No.	109216	Strand	-
Start	3072	End	3332
Name	OJ990531_35.0420.C21.o1.tm	Method	TBLASTX:Maize
Start	376	End	654
GI	none	Score	377
Exons	376..654, 498..653		

Seq. No.	51542	Seq. ID	OJ990531_35.0420.C21
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Gene No. 109216
 Start 3072
 Name OJ990531_35.0420.C21.o1.ts
 Start 430
 GI none
 Exons 430..741, 504..740, 666..752

Strand -
 End 3332
 Method TBLASTX:Soybean
 End 752
 Score 504

Seq. No. 51542
 Gene No. 109216
 Start 3072
 Name OJ990531_35.0420.C21.o1.tw
 Start 526
 GI none
 Exons 526..753, 537..755, 687..758

Seq. ID OJ990531_35.0420.C21
 Strand -
 End 3332
 Method TBLASTX:Wheat
 End 758
 Score 234

Seq. No. 51542
 Gene No. 109216
 Start 3072
 Name OJ990531_35.0420.C21.o2.gs
 Start 3072
 GI none
 Exons 3072..3332

Seq. ID OJ990531_35.0420.C21
 Strand -
 End 3332
 Method GENSCAN
 End 3332
 Score .52

Seq. No. 51543
 Gene No. 109217
 Start 1
 Name OJ990531_35.0420.C22.o1.np
 Start 1
 GI 5777617
 Exons 1..58, 914..1017
 GI Descrip. (AJ245900) CAA30375.1 protein [Oryza sativa]

Seq. ID OJ990531_35.0420.C22
 Strand +
 End 1017
 Method AAT/NAP
 End 1017
 Score 88

Seq. No. 51543
 Gene No. 109218
 Start 1071
 Name OJ990531_35.0420.C22.o2.gs
 Start 1071
 GI none
 Exons 1071..1098, 1177..1565

Seq. ID OJ990531_35.0420.C22
 Strand +
 End 1565
 Method GENSCAN
 End 1565
 Score .88

Seq. No. 51543
 Gene No. 109219
 Start 5266
 Name OJ990531_35.0420.C22.o3.np
 Start 5266
 GI 7487883
 Exons 5266..5314, 5444..5541, 6035..6180, 6373..6408
 GI Descrip. hypothetical protein T9J22.21 - Arabidopsis thaliana
 gi|2739379|gb|AAC14502.1| (AC002505) hypothetical protein
 [Arabidopsis thaliana]

Seq. ID OJ990531_35.0420.C22
 Strand +
 End 6408
 Method AAT/NAP
 End 6408
 Score 116

Seq. No. 51543
 Gene No. 109220
 Start 118
 Name OJ990531_35.0420.C22.o1.gp
 Start 118
 GI 5038557

Seq. ID OJ990531_35.0420.C22
 Strand -
 End 455
 Method AAT/GAP
 End 455
 Score 664

Exons 118..455

Seq. No.	51543	Seq. ID	OJ990531_35.0420.C22
Gene No.	109221	Strand	-
Start	1792	End	3341
Name	OJ990531_35.0420.C22.o1.tm	Method	TBLASTX:Maize
Start	173	End	446
GI	none	Score	183
Exons	173..205, 215..418, 216..446		

Seq. No.	51543	Seq. ID	OJ990531_35.0420.C22
Gene No.	109221	Strand	-
Start	1792	End	3341
Name	OJ990531_35.0420.C22.o3.gs	Method	GENSCAN
Start	1792	End	3341
GI	none	Score	.73
Exons	1792..2114, 2257..2367, 2873..3341		

Seq. No.	51543	Seq. ID	OJ990531_35.0420.C22
Gene No.	109221	Strand	-
Start	1792	End	3341
Name	OJ990531_35.0420.C22.o2.np	Method	AAT/NAP
Start	2878	End	2983
GI	5777617	Score	81
Exons	2878..2983		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	51544	Seq. ID	OJ990531_35.0420.C23
Gene No.	109222	Strand	+
Start	1	End	361
Name	OJ990531_35.0420.C23.o1.gp	Method	AAT/GAP
Start	1	End	361
GI	uC-osflcyp118e08a1	Score	546
Exons	1..52, 131..361		
GI Descrip.	'2739379 4.0e-22 (AC002505) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	51545	Seq. ID	OJ990531_35.0420.C24
Gene No.	109223	Strand	-
Start	808	End	1647
Name	OJ990531_35.0420.C24.o1.gs	Method	GENSCAN
Start	808	End	1647
GI	none	Score	.44
Exons	808..866, 1635..1647		

Seq. No.	51546	Seq. ID	OJ990531_35.0420.C25
Gene No.	109224	Strand	-
Start	514	End	604
Name	OJ990531_35.0420.C25.o1.gs	Method	GENSCAN
Start	514	End	604
GI	none	Score	.67
Exons	514..604		

Seq. No.	51547	Seq. ID	OJ990531_31.0419.C1
Gene No.	109225	Strand	-
Start	1	End	845
Name	OJ990531_31.0419.C1.o1.gp	Method	AAT/GAP

Start	1	End	845
GI	40641.1.R1084	Score	1156
Exons	1..334, 433..590, 698..845		
GI Descrip.	'3360289 3.0e-42 (AF023164) leucine-rich repeat transmembrane protein kinase 1 [Zea mays]'		

Seq. No.	51547	Seq. ID	OJ990531_31.0419.C1
Gene No.	109225	Strand	-
Start	1	End	845
Name	OJ990531_31.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	51	End	831
GI	none	Score	52
Exons	51..95, 52..93, 57..98, 85..159, 183..302, 188..232, 215..340, 225..335, 230..337, 434..592, 435..593, 436..594, 436..597, 698..829, 700..831		

Seq. No.	51547	Seq. ID	OJ990531_31.0419.C1
Gene No.	109225	Strand	-
Start	1	End	845
Name	OJ990531_31.0419.C1.o1.gs	Method	GENSCAN
Start	191	End	786
GI	none	Score	.81
Exons	191..334, 434..590, 698..786		

Seq. No.	51547	Seq. ID	OJ990531_31.0419.C1
Gene No.	109225	Strand	-
Start	1	End	845
Name	OJ990531_31.0419.C1.o1.np	Method	AAT/NAP
Start	194	End	845
GI	7489784	Score	589
Exons	194..334, 434..590, 698..845		
GI Descrip.	leucine-rich repeat transmembrane protein kinase 2 - maize gi 3360291 gb AAC27895.1 (AF023165) leucine-rich repeat transmembrane protein kinase 2 [Zea mays]		

Seq. No.	51547	Seq. ID	OJ990531_31.0419.C1
Gene No.	109225	Strand	-
Start	1	End	845
Name	OJ990531_31.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	200	End	811
GI	none	Score	91
Exons	200..340, 237..335, 434..592, 438..593, 439..597, 698..811, 700..810		

Seq. No.	51547	Seq. ID	OJ990531_31.0419.C1
Gene No.	109225	Strand	-
Start	1	End	845
Name	OJ990531_31.0419.C1.o1.tc	Method	TBLASTX:Cress
Start	212	End	594
GI	none	Score	115
Exons	212..340, 246..335, 250..336, 434..592, 435..593, 436..594		

Seq. No.	51547	Seq. ID	OJ990531_31.0419.C1
Gene No.	109225	Strand	-
Start	1	End	845
Name	OJ990531_31.0419.C1.o1.tw	Method	TBLASTX:Wheat
Start	485	End	811

GI	none	Score	95
Exons	485..589, 683..811, 697..810		
Seq. No.	51548	Seq. ID	OJ990531_31.0419.C2
Gene No.	109226	Strand	-
Start	1	End	2043
Name	OJ990531_31.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	2043
GI	7489783	Score	1382
Exons	1..198, 533..816, 910..1199, 1276..1341, 1422..1487, 1568..1639, 1764..1835, 1923..2043		
GI Descrip.	leucine-rich repeat transmembrane protein kinase 1 - maize (fragment) gi 3360289 gb AAC27894.1 (AF023164) leucine-rich repeat transmembrane protein kinase 1 [Zea mays]		
Seq. No.	51548	Seq. ID	OJ990531_31.0419.C2
Gene No.	109226	Strand	-
Start	1	End	2043
Name	OJ990531_31.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	1	End	805
GI	none	Score	140
Exons	1..201, 11..148, 15..200, 529..639, 530..742, 531..689, 641..739, 662..805		
Seq. No.	51548	Seq. ID	OJ990531_31.0419.C2
Gene No.	109226	Strand	-
Start	1	End	2043
Name	OJ990531_31.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	1	End	1099
GI	none	Score	260
Exons	1..201, 2..199, 5..205, 46..210, 529..714, 530..742, 531..716, 698..817, 699..818, 719..826, 909..1055, 911..1099		
Seq. No.	51548	Seq. ID	OJ990531_31.0419.C2
Gene No.	109226	Strand	-
Start	1	End	2043
Name	OJ990531_31.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	16	End	818
GI	none	Score	181
Exons	16..201, 20..199, 530..679, 531..674, 677..817, 681..818		
Seq. No.	51548	Seq. ID	OJ990531_31.0419.C2
Gene No.	109226	Strand	-
Start	1	End	2043
Name	OJ990531_31.0419.C2.o1.gs	Method	GENSCAN
Start	85	End	1487
GI	none	Score	.9
Exons	85..198, 533..816, 910..1199, 1276..1341, 1422..1487		
Seq. No.	51548	Seq. ID	OJ990531_31.0419.C2
Gene No.	109226	Strand	-
Start	1	End	2043
Name	OJ990531_31.0419.C2.o1.gp	Method	AAT/GAP
Start	662	End	1994
GI	49249_1.R1084	Score	1422
Exons	662..816, 910..1199, 1276..1341, 1422..1487, 1568..1639, 1764..1835, 1923..1994		

GI Descrip. '3360289 1.0e-126 (AF023164) leucine-rich repeat transmembrane protein kinase 1 [Zea mays]'

Seq. No.	51548	Seq. ID	OJ990531_31.0419.C2
Gene No.	109226	Strand	-
Start	1	End	2043
Name	OJ990531_31.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	1275	End	1834
GI	none	Score	95
Exons	1275..1340, 1276..1341, 1416..1487, 1420..1488, 1423..1485, 1424..1486, 1565..1639, 1567..1638, 1580..1639, 1581..1658, 1734..1823, 1758..1823, 1765..1824, 1790..1834		

Seq. No.	51548	Seq. ID	OJ990531_31.0419.C2
Gene No.	109226	Strand	-
Start	1	End	2043
Name	OJ990531_31.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	1275	End	1639
GI	none	Score	77
Exons	1275..1340, 1276..1341, 1384..1485, 1416..1487, 1424..1486, 1565..1639, 1566..1634, 1567..1638		

Seq. No.	51548	Seq. ID	OJ990531_31.0419.C2
Gene No.	109226	Strand	-
Start	1	End	2043
Name	OJ990531_31.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	1287	End	1639
GI	none	Score	52
Exons	1287..1340, 1288..1362, 1409..1486, 1416..1490, 1427..1486, 1437..1493, 1565..1639, 1567..1638		

Seq. No.	51549	Seq. ID	OJ990531_31.0419.C3
Gene No.	109227	Strand	-
Start	527	End	907
Name	OJ990531_31.0419.C3.o1.gs	Method	GENSCAN
Start	527	End	729
GI	none	Score	.93
Exons	527..540, 615..729		

Seq. No.	51549	Seq. ID	OJ990531_31.0419.C3
Gene No.	109227	Strand	-
Start	527	End	907
Name	OJ990531_31.0419.C3.o1.gp	Method	AAT/GAP
Start	615	End	907
GI	49249_1.R1084	Score	543
Exons	615..907		

GI Descrip. '3360289 1.0e-126 (AF023164) leucine-rich repeat transmembrane protein kinase 1 [Zea mays]'

Seq. No.	51550	Seq. ID	OJ990531_31.0419.C4
Gene No.	109228	Strand	-
Start	210	End	554
Name	OJ990531_31.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	208	End	554
GI	none	Score	67
Exons	208..300, 213..299, 399..554, 402..536		

Seq. No.	51550	Seq. ID	OJ990531_31.0419.C4
Gene No.	109228	Strand	-
Start	210	End	554
Name	OJ990531_31.0419.C4.o1.gs	Method	GENSCAN
Start	210	End	533
GI	none	Score	.65
Exons	210..533		

Seq. No.	51551	Seq. ID	OJ990531_31.0419.C5
Gene No.	109229	Strand	+
Start	1	End	899
Name	OJ990531_31.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	898
GI	3694807	Score	164
Exons	1..43, 565..653, 777..898		
GI Descrip.	(AF055898) alanine aminotransferase [Zea mays]		

Seq. No.	51551	Seq. ID	OJ990531_31.0419.C5
Gene No.	109229	Strand	+
Start	1	End	899
Name	OJ990531_31.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	576	End	899
GI	none	Score	95
Exons	576..656, 775..879, 776..898, 777..899		

Seq. No.	51551	Seq. ID	OJ990531_31.0419.C5
Gene No.	109229	Strand	+
Start	1	End	899
Name	OJ990531_31.0419.C5.o1.gs	Method	GENSCAN
Start	579	End	897
GI	none	Score	.67
Exons	579..653, 777..897		

Seq. No.	51552	Seq. ID	OJ990531_31.0419.C6
Gene No.	109230	Strand	+
Start	1	End	136
Name	OJ990531_31.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	136
GI	3694807	Score	160
Exons	1..136		
GI Descrip.	(AF055898) alanine aminotransferase [Zea mays]		

Seq. No.	51552	Seq. ID	OJ990531_31.0419.C6
Gene No.	109231	Strand	-
Start	733	End	947
Name	OJ990531_31.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	19	End	211
GI	none	Score	179
Exons	19..138, 20..211		

Seq. No.	51552	Seq. ID	OJ990531_31.0419.C6
Gene No.	109231	Strand	-
Start	733	End	947
Name	OJ990531_31.0419.C6.o2.gs	Method	GENSCAN
Start	733	End	947
GI	none	Score	.93
Exons	733..947		

Seq. No.	51553	Seq. ID	OJ990531_31.0419.C7
Gene No.	109232	Strand	+
Start	153	End	268
Name	OJ990531_31.0419.C7.o1.gs	Method	GENSCAN
Start	153	End	268
GI	none	Score	.78
Exons	153..268		
Seq. No.	51554	Seq. ID	OJ990531_31.0419.C10
Gene No.	109233	Strand	+
Start	1	End	1369
Name	OJ990531_31.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	770
GI	7340909	Score	156
Exons	1..24, 157..505, 625..770		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		
Seq. No.	51554	Seq. ID	OJ990531_31.0419.C10
Gene No.	109233	Strand	+
Start	1	End	1369
Name	OJ990531_31.0419.C10.o1.gs	Method	GENSCAN
Start	442	End	1369
GI	none	Score	.45
Exons	442..587, 651..792, 1274..1369		
Seq. No.	51555	Seq. ID	OJ990531_31.0419.C13
Gene No.	109234	Strand	-
Start	433	End	1367
Name	OJ990531_31.0419.C13.o1.gs	Method	GENSCAN
Start	433	End	1367
GI	none	Score	.9
Exons	433..636, 1239..1367		
Seq. No.	51556	Seq. ID	OJ990531_31.0419.C14
Gene No.	109235	Strand	-
Start	236	End	378
Name	OJ990531_31.0419.C14.o1.gs	Method	GENSCAN
Start	236	End	378
GI	none	Score	.63
Exons	236..378		
Seq. No.	51557	Seq. ID	OJ990531_31.0419.C15
Gene No.	109236	Strand	+
Start	476	End	1101
Name	OJ990531_31.0419.C15.o1.np	Method	AAT/NAP
Start	476	End	1101
GI	2498930	Score	655
Exons	476..539, 707..1101		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi 1203794 (U18774) Sog [Drosophila melanogaster]		
Seq. No.	51557	Seq. ID	OJ990531_31.0419.C15
Gene No.	109236	Strand	+
Start	476	End	1101
Name	OJ990531_31.0419.C15.o1.gs	Method	GENSCAN
Start	480	End	1009

GI	none	Score	.98
Exons	480..539, 707..1009		
Seq. No.	51558	Seq. ID	OJ990531_31.0419.C17
Gene No.	109237	Strand	+
Start	175	End	800
Name	OJ990531_31.0419.C17.o1.np	Method	AAT/NAP
Start	175	End	676
GI	2497367	Score	150
Exons	175..446, 529..676		
GI Descrip.	HYPOTHETICAL PROTEIN KIAA0274 gi 1665813 dbj BAA13403.1 (D87464) Similar to S.cerevisiae hypothetical protein N0330 (S55864) [Homo sapiens]		

Seq. No.	51558	Seq. ID	OJ990531_31.0419.C17
Gene No.	109237	Strand	+
Start	175	End	800
Name	OJ990531_31.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	241	End	720
GI	none	Score	305
Exons	241..288, 242..457, 242..448, 391..456, 546..713, 546..710, 547..720, 547..711		

Seq. No.	51558	Seq. ID	OJ990531_31.0419.C17
Gene No.	109237	Strand	+
Start	175	End	800
Name	OJ990531_31.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	245	End	713
GI	none	Score	265
Exons	245..448, 245..436, 391..447, 545..613, 546..683, 621..713, 630..713		

Seq. No.	51558	Seq. ID	OJ990531_31.0419.C17
Gene No.	109237	Strand	+
Start	175	End	800
Name	OJ990531_31.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	314	End	800
GI	none	Score	154
Exons	314..448, 391..447, 545..718, 545..784, 546..800		

Seq. No.	51559	Seq. ID	OJ990531_31.0419.C18
Gene No.	109238	Strand	+
Start	1	End	1206
Name	OJ990531_31.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	1206
GI	7487361	Score	355
Exons	1..40, 218..299, 423..614, 696..809, 1001..1206		
GI Descrip.	hypothetical protein T22J18.20 - Arabidopsis thaliana gi 3287695 gb AAC25523.1 (AC003979) Similar to hypothetical protein C34B7.2 gb 1729503 from C. elegans cosmid gb Z83220. [Arabidopsis thaliana]		

Seq. No.	51559	Seq. ID	OJ990531_31.0419.C18
Gene No.	109238	Strand	+
Start	1	End	1206
Name	OJ990531_31.0419.C18.o1.gs	Method	GENSCAN
Start	2	End	1139

GI	none	Score	.85
Exons	2..15, 423..610, 695..789, 1006..1139		
Seq. No.	51559	Seq. ID	OJ990531_31.0419.C18
Gene No.	109238	Strand	+
Start	1	End	1206
Name	OJ990531_31.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	211	End	1148
GI	none	Score	141
Exons	211..303, 211..297, 219..311, 219..302, 420..608, 420..608, 421..615, 422..610, 663..764, 694..795, 697..774, 989..1141, 990..1148, 991..1140, 1004..1141		
Seq. No.	51559	Seq. ID	OJ990531_31.0419.C18
Gene No.	109238	Strand	+
Start	1	End	1206
Name	OJ990531_31.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	211	End	1062
GI	none	Score	98
Exons	211..303, 219..299, 420..608, 421..609, 697..789, 697..774, 990..1061, 991..1062		
Seq. No.	51560	Seq. ID	OJ990531_31.0419.C19
Gene No.	109239	Strand	+
Start	140	End	906
Name	OJ990531_31.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	139	End	906
GI	none	Score	74
Exons	139..228, 170..229, 177..284, 276..341, 276..341, 278..346, 347..364, 456..605, 457..618, 457..645, 464..646, 789..884, 800..889, 801..884, 802..906		
Seq. No.	51560	Seq. ID	OJ990531_31.0419.C19
Gene No.	109239	Strand	+
Start	140	End	906
Name	OJ990531_31.0419.C19.o1.gs	Method	GENSCAN
Start	140	End	884
GI	none	Score	.77
Exons	140..366, 459..617, 803..884		
Seq. No.	51561	Seq. ID	OJ990531_31.0419.C22
Gene No.	109240	Strand	-
Start	1	End	786
Name	OJ990531_31.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	786
GI	5669167	Score	506
Exons	1..58, 148..327, 428..562, 650..786		
GI Descrip.	(AF156691) plasma membrane proton ATPase [Nicotiana plumbaginifolia]		
Seq. No.	51561	Seq. ID	OJ990531_31.0419.C22
Gene No.	109240	Strand	-
Start	1	End	786
Name	OJ990531_31.0419.C22.o1.gs	Method	GENSCAN
Start	248	End	562
GI	none	Score	.75
Exons	248..327, 390..562		

Seq. No.	51561	Seq. ID	OJ990531_31.0419.C22
Gene No.	109241	Strand	-
Start	1114	End	1172
Name	OJ990531_31.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	2	End	774
GI	none	Score	54
Exons	2..58, 12..56, 142..231, 146..232, 149..232, 190..288, 216..293, 283..327, 284..328, 293..328, 431..565, 438..563, 655..774, 667..774		

Seq. No.	51561	Seq. ID	OJ990531_31.0419.C22
Gene No.	109241	Strand	-
Start	1114	End	1172
Name	OJ990531_31.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	2	End	786
GI	none	Score	98
Exons	2..58, 142..231, 155..232, 190..288, 216..293, 280..327, 281..331, 431..565, 447..563, 655..786, 670..774		

Seq. No.	51561	Seq. ID	OJ990531_31.0419.C22
Gene No.	109241	Strand	-
Start	1114	End	1172
Name	OJ990531_31.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	126	End	762
GI	none	Score	61
Exons	126..230, 142..231, 146..232, 190..288, 216..293, 280..327, 281..328, 431..565, 435..566, 670..762		

Seq. No.	51561	Seq. ID	OJ990531_31.0419.C22
Gene No.	109241	Strand	-
Start	1114	End	1172
Name	OJ990531_31.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	142	End	720
GI	none	Score	88
Exons	142..231, 146..232, 190..294, 216..293, 280..327, 290..328, 431..565, 441..563, 667..717, 667..720		

Seq. No.	51561	Seq. ID	OJ990531_31.0419.C22
Gene No.	109241	Strand	-
Start	1114	End	1172
Name	OJ990531_31.0419.C22.o1.gp	Method	AAT/GAP
Start	1114	End	1172
GI	5607395	Score	99
Exons	1114..1172		

Seq. No.	51562	Seq. ID	OJ990531_31.0419.C24
Gene No.	109242	Strand	+
Start	1	End	230
Name	OJ990531_31.0419.C24.o1.gp	Method	AAT/GAP
Start	1	End	230
GI	LIB3434-035-P1-K1-A7	Score	398
Exons	1..230		
GI Descrip.	'5441876/dbj AP000367.1 AP000367 1.0e-114 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	51562	Seq. ID	OJ990531_31.0419.C24
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Gene No.	109243	Strand	+
Start	292	End	634
Name	OJ990531_31.0419.C24.o1.gs	Method	GENSCAN
Start	292	End	634
GI	none	Score	.79
Exons	292..323, 524..634		

Seq. No.	51562	Seq. ID	OJ990531_31.0419.C24
Gene No.	109244	Strand	-
Start	918	End	1714
Name	OJ990531_31.0419.C24.o2.gs	Method	GENSCAN
Start	918	End	1714
GI	none	Score	.87
Exons	918..1277, 1363..1473, 1649..1714		

Seq. No.	51563	Seq. ID	OJ990531_31.0419.C25
Gene No.	109245	Strand	+
Start	831	End	2328
Name	OJ990531_31.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	819	End	2328
GI	none	Score	59
Exons	819..875, 930..1007, 955..1008, 957..1046, 1141..1170, 1230..1307, 1238..1309, 1238..1309, 1240..1311, 1379..1441, 1379..1441, 1381..1443, 1381..1443, 1582..1677, 1587..1673, 1600..1677, 2044..2163, 2052..2162, 2238..2324, 2238..2321, 2239..2328		

Seq. No.	51563	Seq. ID	OJ990531_31.0419.C25
Gene No.	109245	Strand	+
Start	831	End	2328
Name	OJ990531_31.0419.C25.o1.gs	Method	GENSCAN
Start	831	End	2248
GI	none	Score	.93
Exons	831..909, 1067..1164, 1361..1443, 1599..1677, 2056..2198, 2239..2248		

Seq. No.	51563	Seq. ID	OJ990531_31.0419.C25
Gene No.	109245	Strand	+
Start	831	End	2328
Name	OJ990531_31.0419.C25.o1.np	Method	AAT/NAP
Start	831	End	2328
GI	461498	Score	612
Exons	831..869, 958..1008, 1114..1164, 1241..1306, 1382..1443, 1599..1677, 2056..2160, 2239..2328		

GI Descrip. ALANINE AMINOTRANSFERASE 2 (GPT) (GLUTAMIC--PYRUVIC TRANSAMINASE 2) (GLUTAMIC--ALANINE TRANSAMINASE 2) (ALAAT-2)
gi|320619|pir||S28429 alanine transaminase (EC 2.6.1.2) - proso
millet gi|296204|emb|CAA49199| (X69421) alanine aminotransferase
[Panicum miliaceum]

Seq. No.	51563	Seq. ID	OJ990531_31.0419.C25
Gene No.	109245	Strand	+
Start	831	End	2328
Name	OJ990531_31.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	843	End	2328
GI	none	Score	38
Exons	843..875, 955..1008, 1238..1309, 1238..1309, 1249..1311,		

1379..1441, 1564..1677, 1590..1685, 2044..2163, 2055..2162,
2238..2321, 2238..2321, 2239..2328

Seq. No.	51563	Seq. ID	OJ990531_31.0419.C25
Gene No.	109245	Strand	+
Start	831	End	2328
Name	OJ990531_31.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	843	End	2328
GI	none	Score	41
Exons	843..875, 955..1008, 957..1004, 1110..1163, 1141..1170, 1238..1309, 1240..1311, 1379..1441, 1379..1441, 1563..1661, 1570..1677, 2044..2163, 2052..2162, 2054..2209, 2238..2321, 2239..2328		

Seq. No.	51563	Seq. ID	OJ990531_31.0419.C25
Gene No.	109245	Strand	+
Start	831	End	2328
Name	OJ990531_31.0419.C25.o1.tw	Method	TBLASTX:Wheat
Start	1588	End	2295
GI	none	Score	118
Exons	1588..1677, 1593..1679, 1596..1682, 2044..2163, 2055..2162, 2238..2285, 2238..2294, 2239..2295		

Seq. No.	51564	Seq. ID	OJ990531_31.0419.C27
Gene No.	109246	Strand	+
Start	294	End	544
Name	OJ990531_31.0419.C27.o1.gs	Method	GENSCAN
Start	294	End	544
GI	none	Score	.88
Exons	294..544		

Seq. No.	51564	Seq. ID	OJ990531_31.0419.C27
Gene No.	109247	Strand	-
Start	508	End	1438
Name	OJ990531_31.0419.C27.o1.gp	Method	AAT/GAP
Start	508	End	1016
GI	3768922	Score	697
Exons	508..858, 934..1016		
GI Descrip.	2498706/sp Q38899 ORC2_ARATH 2.0e-16 ORIGIN RECOGNITION COMPLEX SUBUNIT 2 >gi_1113103 (U40269) atOrc2p [Arabidopsis thaliana] >gi_3236239 (AC004684) origin recognition complex protein [Arabidopsis thaliana]		

Seq. No.	51564	Seq. ID	OJ990531_31.0419.C27
Gene No.	109247	Strand	-
Start	508	End	1438
Name	OJ990531_31.0419.C27.o1.np	Method	AAT/NAP
Start	662	End	1438
GI	2498706	Score	671
Exons	662..858, 934..1161, 1237..1438		
GI Descrip.	ORIGIN RECOGNITION COMPLEX SUBUNIT 2 gi 1113103 (U40269) atOrc2p [Arabidopsis thaliana] gi 3236239 gb AAC23627.1 (AC004684) origin recognition complex protein [Arabidopsis thaliana]		

Seq. No.	51564	Seq. ID	OJ990531_31.0419.C27
Gene No.	109247	Strand	-
Start	508	End	1438

Name	OJ990531_31.0419.C27.o1.tc	Method	TBLASTX:Cress
Start	668	End	1435
GI	none	Score	147
Exons	668..859, 693..860, 908..1165, 909..1160, 949..1164, 1236..1430, 1238..1435		

Seq. No.	51564	Seq. ID	OJ990531_31.0419.C27
Gene No.	109247	Strand	-
Start	508	End	1438
Name	OJ990531_31.0419.C27.o2.ts	Method	TBLASTX:Soybean
Start	731	End	860
GI	none	Score	144
Exons	731..859, 732..860, 732..860		

Seq. No.	51564	Seq. ID	OJ990531_31.0419.C27
Gene No.	109247	Strand	-
Start	508	End	1438
Name	OJ990531_31.0419.C27.o2.gs	Method	GENSCAN
Start	881	End	1393
GI	none	Score	.68
Exons	881..1161, 1237..1393		

Seq. No.	51564	Seq. ID	OJ990531_31.0419.C27
Gene No.	109247	Strand	-
Start	508	End	1438
Name	OJ990531_31.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	935	End	1315
GI	none	Score	214
Exons	935..1147, 936..1148, 969..1151, 991..1152, 1236..1313, 1238..1315		

Seq. No.	51564	Seq. ID	OJ990531_31.0419.C27
Gene No.	109247	Strand	-
Start	508	End	1438
Name	OJ990531_31.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	1049	End	1388
GI	none	Score	121
Exons	1049..1159, 1050..1157, 1056..1160, 1058..1159, 1236..1388, 1238..1387		

Seq. No.	51564	Seq. ID	OJ990531_31.0419.C27
Gene No.	109247	Strand	-
Start	508	End	1438
Name	OJ990531_31.0419.C27.o2.gp	Method	AAT/GAP
Start	1231	End	1438
GI	920_1.R1084	Score	313
Exons	1231..1438		
GI Descrip.	'2498706/sp Q38899 ORC2_ARATH 2.0e-16 ORIGIN RECOGNITION COMPLEX SUBUNIT 2 >gi_1113103 (U40269) atOrc2p [Arabidopsis thaliana] >gi_3236239 (AC004684) origin recognition complex protein [Arabidopsis thaliana]'		

Seq. No.	51565	Seq. ID	OJ990531_31.0419.C28
Gene No.	109248	Strand	+
Start	2649	End	3801
Name	OJ990531_31.0419.C28.o2.np	Method	AAT/NAP
Start	2649	End	3801

GI 7340868 Score 89
 Exons 2649..2808, 3768..3801
 GI Descrip. (AP001551) hypothetical protein [Oryza sativa]

Seq. No. 51565 Seq. ID OJ990531_31.0419.C28
 Gene No. 109249 Strand -
 Start 1 End 2754
 Name OJ990531_31.0419.C28.o1.gp Method AAT/GAP
 Start 1 End 386
 GI 920 1.R1084 Score 377
 Exons 1..41, 123..229, 315..386
 GI Descrip. '2498706/sp|Q38899|ORC2_ARATH 2.0e-16 ORIGIN RECOGNITION COMPLEX
 SUBUNIT 2 >gi_1113103 (U40269) atOrc2p [Arabidopsis thaliana]
 >gi_3236239 (AC004684) origin recognition complex protein
 [Arabidopsis thaliana]'

Seq. No. 51565 Seq. ID OJ990531_31.0419.C28
 Gene No. 109249 Strand -
 Start 1 End 2754
 Name OJ990531_31.0419.C28.o1.np Method AAT/NAP
 Start 1 End 458
 GI 2498706 Score 154
 Exons 1..41, 123..229, 315..458
 GI Descrip. ORIGIN RECOGNITION COMPLEX SUBUNIT 2 gi|1113103 (U40269) atOrc2p
 [Arabidopsis thaliana] gi|3236239|gb|AAC23627.1| (AC004684)
 origin recognition complex protein [Arabidopsis thaliana]

Seq. No. 51565 Seq. ID OJ990531_31.0419.C28
 Gene No. 109249 Strand -
 Start 1 End 2754
 Name OJ990531_31.0419.C28.o1.gs Method GENSCAN
 Start 123 End 2754
 GI none Score .79
 Exons 123..265, 315..586, 1067..1321, 1406..1470, 1541..1644,
 2166..2403, 2645..2754

Seq. No. 51566 Seq. ID OJ990531_31.0419.C29
 Gene No. 109250 Strand +
 Start 1 End 404
 Name OJ990531_31.0419.C29.o2.np Method AAT/NAP
 Start 1 End 404
 GI 4680183 Score 135
 Exons 1..36, 315..404
 GI Descrip. (AF111709) gag-pol protein [Oryza sativa subsp. indica]

Seq. No. 51566 Seq. ID OJ990531_31.0419.C29
 Gene No. 109251 Strand -
 Start 1 End 1303
 Name OJ990531_31.0419.C29.o3.np Method AAT/NAP
 Start 1 End 1303
 GI 7340881 Score 124
 Exons 1..32, 1137..1303
 GI Descrip. (AP001551) hypothetical protein [Oryza sativa]

Seq. No. 51566 Seq. ID OJ990531_31.0419.C29
 Gene No. 109251 Strand -
 Start 1 End 1303

Name	OJ990531_31.0419.C29.o1.np	Method	AAT/NAP
Start	192	End	282
GI	6721561	Score	132
Exons	192..282		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi 6815086 dbj BAA90372.1 (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51567	Seq. ID	OJ990531_31.0419.C31
Gene No.	109252	Strand	-
Start	1	End	1068
Name	OJ990531_31.0419.C31.o1.gp	Method	AAT/GAP
Start	1	End	710
GI	24324 1.R1084	Score	886
Exons	1..379, 637..710		
GI Descrip.	'4490292/emb CAB38783.1 5.0e-30 (AL035678) putative protein [Arabidopsis thaliana]'		

Seq. No.	51567	Seq. ID	OJ990531_31.0419.C31
Gene No.	109252	Strand	-
Start	1	End	1068
Name	OJ990531_31.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	174	End	427
GI	none	Score	301
Exons	174..425, 176..427, 179..424		

Seq. No.	51567	Seq. ID	OJ990531_31.0419.C31
Gene No.	109252	Strand	-
Start	1	End	1068
Name	OJ990531_31.0419.C31.o1.gs	Method	GENSCAN
Start	179	End	719
GI	none	Score	.95
Exons	179..379, 637..719		

Seq. No.	51567	Seq. ID	OJ990531_31.0419.C31
Gene No.	109252	Strand	-
Start	1	End	1068
Name	OJ990531_31.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	179	End	768
GI	none	Score	119
Exons	179..295, 180..290, 302..382, 303..380, 625..768, 638..721		

Seq. No.	51567	Seq. ID	OJ990531_31.0419.C31
Gene No.	109252	Strand	-
Start	1	End	1068
Name	OJ990531_31.0419.C31.o1.np	Method	AAT/NAP
Start	182	End	1068
GI	7485649	Score	282
Exons	182..379, 637..773, 1022..1068		
GI Descrip.	hypothetical protein F17M5.10 - Arabidopsis thaliana gi 4490292 emb CAB38783.1 (AL035678) putative protein [Arabidopsis thaliana] gi 7270273 emb CAB80042.1 (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	51568	Seq. ID	OJ990531_31.0419.C32
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Gene No.	109253	Strand	-
Start	3	End	2829
Name	OJ990531_31.0419.C32.o1.gp	Method	AAT/GAP
Start	3	End	1159
GI	44238_1.R1084	Score	656
Exons	3..51, 138..194, 899..1159		
GI Descrip.	'4490292 emb CAB38783.1 9.0e-17 (AL035678) putative protein [Arabidopsis thaliana]'		

Seq. No.	51568	Seq. ID	OJ990531_31.0419.C32
Gene No.	109253	Strand	-
Start	3	End	2829
Name	OJ990531_31.0419.C32.o1.gs	Method	GENSCAN
Start	138	End	2825
GI	none	Score	.44
Exons	138..194, 899..1016, 1496..1575, 2596..2825		

Seq. No.	51568	Seq. ID	OJ990531_31.0419.C32
Gene No.	109253	Strand	-
Start	3	End	2829
Name	OJ990531_31.0419.C32.o2.gp	Method	AAT/GAP
Start	2219	End	2829
GI	none	Score	1198
Exons	2219..2829		

Seq. No.	51569	Seq. ID	OJ990531_31.0419.C34
Gene No.	109254	Strand	+
Start	647	End	1086
Name	OJ990531_31.0419.C34.o1.np	Method	AAT/NAP
Start	647	End	1086
GI	7485327	Score	139
Exons	647..704, 791..863, 975..1086		
GI Descrip.	hypothetical protein F10M23.10 - Arabidopsis thaliana gi 4455190 emb CAB36513.1 (AL035440) putative protein [Arabidopsis thaliana] gi 7269519 emb CAB79522.1 (AL161565) putative protein [Arabidopsis thaliana]		

Seq. No.	51570	Seq. ID	OJ990531_31.0419.C35
Gene No.	109255	Strand	-
Start	352	End	597
Name	OJ990531_31.0419.C35.o1.gs	Method	GENSCAN
Start	352	End	597
GI	none	Score	.68
Exons	352..463, 527..597		

Seq. No.	51571	Seq. ID	OJ990531_31.0419.C37
Gene No.	109256	Strand	+
Start	215	End	1170
Name	OJ990531_31.0419.C37.o1.gs	Method	GENSCAN
Start	215	End	1170
GI	none	Score	.88
Exons	215..368, 460..583, 696..1170		

Seq. No.	51571	Seq. ID	OJ990531_31.0419.C37
Gene No.	109257	Strand	-
Start	1	End	1428
Name	OJ990531_31.0419.C37.o1.np	Method	AAT/NAP

Start	1	End	1428
GI	6721555	Score	718
Exons	1..306, 712..911, 948..1214, 1373..1428		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi 6815080 dbj BAA90366.1 (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	51571	Seq. ID	OJ990531_31.0419.C37
Gene No.	109257	Strand	-
Start	1	End	1428
Name	OJ990531_31.0419.C37.o2.np	Method	AAT/NAP
Start	1323	End	1422
GI	5777617	Score	79
Exons	1323..1422		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	51571	Seq. ID	OJ990531_31.0419.C37
Gene No.	109258	Strand	-
Start	1795	End	4060
Name	OJ990531_31.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	6	End	146
GI	none	Score	128
Exons	6..146, 10..135, 12..146		

Seq. No.	51571	Seq. ID	OJ990531_31.0419.C37
Gene No.	109258	Strand	-
Start	1795	End	4060
Name	OJ990531_31.0419.C37.o1.ts	Method	TBLASTX:Soybean
Start	6	End	276
GI	none	Score	144
Exons	6..146, 7..138, 199..276, 245..265		

Seq. No.	51571	Seq. ID	OJ990531_31.0419.C37
Gene No.	109258	Strand	-
Start	1795	End	4060
Name	OJ990531_31.0419.C37.o1.tw	Method	TBLASTX:Wheat
Start	683	End	963
GI	none	Score	105
Exons	683..805, 694..840, 714..836, 718..855, 729..854, 817..945, 844..963, 852..953		

Seq. No.	51571	Seq. ID	OJ990531_31.0419.C37
Gene No.	109258	Strand	-
Start	1795	End	4060
Name	OJ990531_31.0419.C37.o2.gs	Method	GENSCAN
Start	1795	End	4060
GI	none	Score	.76
Exons	1795..2022, 2725..2792, 2835..3057, 3843..3909, 4017..4060		

Seq. No.	51572	Seq. ID	OJ990531_31.0419.C40
Gene No.	109259	Strand	-
Start	1154	End	1821
Name	OJ990531_31.0419.C40.o1.gs	Method	GENSCAN
Start	1154	End	1821
GI	none	Score	.99
Exons	1154..1493, 1580..1821		

Seq. No. 51572
Gene No. 109259
Start 1154
Name OJ990531_31.0419.C40.o1.tc
Start 1163
GI none
Exons 1163..1483, 1185..1481

Seq. ID OJ990531_31.0419.C40
Strand -
End 1821
Method TBLASTX:Cress
End 1483
Score 175

Seq. No. 51573
Gene No. 109260
Start 144
Name OJ990531_31.0419.C43.o1.gp
Start 144
GI 2442274
Exons 144..245, 716..747, 864..895

Seq. ID OJ990531_31.0419.C43
Strand +
End 895
Method AAT/GAP
End 895
Score 304

Seq. No. 51573
Gene No. 109260
Start 144
Name OJ990531_31.0419.C43.o1.gs
Start 144
GI none
Exons 144..245, 427..519

Seq. ID OJ990531_31.0419.C43
Strand +
End 895
Method GENSCAN
End 519
Score .89

Seq. No. 51574
Gene No. 109261
Start 134
Name OJ990531_31.0419.C44.o1.gs
Start 134
GI none
Exons 134..275, 365..436, 531..599, 880..1007

Seq. ID OJ990531_31.0419.C44
Strand -
End 1301
Method GENSCAN
End 1007
Score .6

Seq. No. 51574
Gene No. 109261
Start 134
Name OJ990531_31.0419.C44.o1.np
Start 165
GI 6671958
Exons 165..275, 365..436, 531..599, 689..760, 880..1032, 1258..1301
GI Descrip. (AC013454) hypothetical protein [Arabidopsis thaliana]

Seq. ID OJ990531_31.0419.C44
Strand -
End 1301
Method AAT/NAP
End 1301
Score 250

Seq. No. 51574
Gene No. 109261
Start 134
Name OJ990531_31.0419.C44.o1.tm
Start 225
GI none
Exons 225..284, 227..277, 339..440, 521..601, 521..601, 546..605

Seq. ID OJ990531_31.0419.C44
Strand -
End 1301
Method TBLASTX:Maize
End 605
Score 72

Seq. No. 51575
Gene No. 109262
Start 1
Name OJ990531_31.0419.C45.o1.np
Start 1
GI 6671958
Exons 1..488, 825..904

Seq. ID OJ990531_31.0419.C45
Strand -
End 986
Method AAT/NAP
End 904
Score 365

GI Descrip. (AC013454) hypothetical protein [Arabidopsis thaliana]

Seq. No.	51575	Seq. ID	OJ990531_31.0419.C45
Gene No.	109262	Strand	-
Start	1	End	986
Name	OJ990531_31.0419.C45.o1.gp	Method	AAT/GAP
Start	217	End	986
GI	none	Score	855
Exons	217..488, 793..986		

Seq. No.	51575	Seq. ID	OJ990531_31.0419.C45
Gene No.	109263	Strand	-
Start	1787	End	2128
Name	OJ990531_31.0419.C45.o2.tm	Method	TBLASTX:Maize
Start	1	End	171
GI	none	Score	208
Exons	1..171, 5..169		

Seq. No.	51575	Seq. ID	OJ990531_31.0419.C45
Gene No.	109263	Strand	-
Start	1787	End	2128
Name	OJ990531_31.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	211	End	501
GI	none	Score	70
Exons	211..414, 229..501, 269..475		

Seq. No.	51575	Seq. ID	OJ990531_31.0419.C45
Gene No.	109263	Strand	-
Start	1787	End	2128
Name	OJ990531_31.0419.C45.o2.np	Method	AAT/NAP
Start	1775	End	2128
GI	7485664	Score	373
Exons	1775..2128		

GI Descrip. hypothetical protein F17M5.90 - Arabidopsis thaliana
gi|4490300|emb|CAB38791.1| (AL035678) putative protein
[Arabidopsis thaliana] gi|7270281|emb|CAB80050.1| (AL161583)
putative protein [Arabidopsis thaliana]

Seq. No.	51575	Seq. ID	OJ990531_31.0419.C45
Gene No.	109263	Strand	-
Start	1787	End	2128
Name	OJ990531_31.0419.C45.o2.gs	Method	GENSCAN
Start	1787	End	1984
GI	none	Score	.86
Exons	1787..1984		

Seq. No.	51575	Seq. ID	OJ990531_31.0419.C45
Gene No.	109263	Strand	-
Start	1787	End	2128
Name	OJ990531_31.0419.C45.o2.ts	Method	TBLASTX:Soybean
Start	1799	End	2038
GI	none	Score	65
Exons	1799..1849, 1850..2038, 1923..2036		

Seq. No.	51575	Seq. ID	OJ990531_31.0419.C45
Gene No.	109263	Strand	-
Start	1787	End	2128

Name	OJ990531_31.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	1808	End	2107
GI	none	Score	119
Exons	1808..2107, 1935..2054		
Seq. No.	51575	Seq. ID	OJ990531_31.0419.C45
Gene No.	109263	Strand	-
Start	1787	End	2128
Name	OJ990531_31.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	1845	End	2128
GI	none	Score	272
Exons	1845..2126, 1847..2128, 1970..2128		
Seq. No.	51576	Seq. ID	OJ990531_31.0419.C46
Gene No.	109264	Strand	+
Start	2513	End	2842
Name	OJ990531_31.0419.C46.o1.gp	Method	AAT/GAP
Start	2513	End	2842
GI	uC-osroM202028g08a1	Score	594
Exons	2513..2842		
GI Descrip.	'4490301 emb CAB38792.1 3.0e-28 (AL035678) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	51576	Seq. ID	OJ990531_31.0419.C46
Gene No.	109265	Strand	-
Start	2415	End	2842
Name	OJ990531_31.0419.C46.o1.np	Method	AAT/NAP
Start	2415	End	2842
GI	7485650	Score	264
Exons	2415..2440, 2497..2842		
GI Descrip.	hypothetical protein F17M5.100 - Arabidopsis thaliana gi 4490301 emb CAB38792.1 (AL035678) hypothetical protein [Arabidopsis thaliana] gi 7270282 emb CAB80051.1 (AL161583) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	51576	Seq. ID	OJ990531_31.0419.C46
Gene No.	109265	Strand	-
Start	2415	End	2842
Name	OJ990531_31.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	2570	End	2842
GI	none	Score	55
Exons	2570..2671, 2598..2660, 2726..2797, 2741..2809, 2763..2798, 2800..2841, 2807..2842, 2812..2841		
Seq. No.	51577	Seq. ID	OJ990531_31.0419.C47
Gene No.	109266	Strand	+
Start	5	End	356
Name	OJ990531_31.0419.C47.o1.gs	Method	GENSCAN
Start	5	End	356
GI	none	Score	.79
Exons	5..118, 216..356		
Seq. No.	51578	Seq. ID	OJ990531_31.0419.C48
Gene No.	109267	Strand	+
Start	108	End	1136
Name	OJ990531_31.0419.C48.o1.gs	Method	GENSCAN
Start	108	End	1136

GI	none	Score	.86
Exons	108..209, 1124..1136		
Seq. No.	51579	Seq. ID	OJ990531_31.0419.C49
Gene No.	109268	Strand	+
Start	780	End	1585
Name	OJ990531_31.0419.C49.o1.gs	Method	GENSCAN
Start	780	End	1585
GI	none	Score	.72
Exons	780..996, 1337..1585		

Seq. No.	51579	Seq. ID	OJ990531_31.0419.C49
Gene No.	109269	Strand	-
Start	2205	End	2401
Name	OJ990531_31.0419.C49.o2.gs	Method	GENSCAN
Start	2205	End	2401
GI	none	Score	.88
Exons	2205..2401		

Seq. No.	51580	Seq. ID	OJ990531_31.0419.C50
Gene No.	109270	Strand	-
Start	422	End	831
Name	OJ990531_31.0419.C50.o1.gs	Method	GENSCAN
Start	422	End	831
GI	none	Score	.56
Exons	422..538, 729..831		

Seq. No.	51581	Seq. ID	OJ990531_31.0419.C51
Gene No.	109271	Strand	+
Start	298	End	751
Name	OJ990531_31.0419.C51.o1.np	Method	AAT/NAP
Start	298	End	751
GI	7431376	Score	201
Exons	298..441, 469..751		
GI Descrip.	hypothetical protein F17M5.120 - Arabidopsis thaliana gi 4490303 emb CAB38794.1 (AL035678) putative protein [Arabidopsis thaliana] gi 7270284 emb CAB80053.1 (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	51581	Seq. ID	OJ990531_31.0419.C51
Gene No.	109271	Strand	+
Start	298	End	751
Name	OJ990531_31.0419.C51.o1.tm	Method	TBLASTX:Maize
Start	327	End	639
GI	none	Score	146
Exons	327..413, 328..468, 364..468, 478..639, 490..627		

Seq. No.	51581	Seq. ID	OJ990531_31.0419.C51
Gene No.	109271	Strand	+
Start	298	End	751
Name	OJ990531_31.0419.C51.o1.gs	Method	GENSCAN
Start	334	End	618
GI	none	Score	.97
Exons	334..618		

Seq. No.	51581	Seq. ID	OJ990531_31.0419.C51
Gene No.	109271	Strand	+

Start 298
 Name OJ990531_31.0419.C51.o1.ts
 Start 334
 GI none
 Exons 334..468, 478..669, 478..615

End 751
 Method TBLASTX:Soybean
 End 669
 Score 87

Seq. No. 51581
 Gene No. 109271
 Start 298
 Name OJ990531_31.0419.C51.o1.tc
 Start 334
 GI none
 Exons 334..468, 478..669

Seq. ID OJ990531_31.0419.C51
 Strand +
 End 751
 Method TBLASTX:Cress
 End 669
 Score 107

Seq. No. 51582
 Gene No. 109272
 Start 47
 Name OJ990531_31.0419.C57.o1.gs
 Start 47
 GI none
 Exons 47..253, 407..574

Seq. ID OJ990531_31.0419.C57
 Strand -
 End 574
 Method GENSCAN
 End 574
 Score .95

Seq. No. 51583
 Gene No. 109273
 Start 1
 Name OJ990531_31.0419.C58.o1.np
 Start 1
 GI 7452422
 Exons 1..312, 1159..1499

Seq. ID OJ990531_31.0419.C58
 Strand +
 End 1499
 Method AAT/NAP
 End 1499
 Score 563

GI Descrip. hypothetical protein F10M10.80 - Arabidopsis thaliana
 gi|4455176|emb|CAB36708.1| (AL035521) hypothetical protein
 [Arabidopsis thaliana] gi|7270381|emb|CAB80148.1| (AL161585)
 hypothetical protein [Arabidopsis thaliana]

Seq. No. 51583
 Gene No. 109273
 Start 1
 Name OJ990531_31.0419.C58.o1.gs
 Start 7
 GI none
 Exons 7..315, 1159..1387

Seq. ID OJ990531_31.0419.C58
 Strand +
 End 1499
 Method GENSCAN
 End 1387
 Score .95

Seq. No. 51584
 Gene No. 109274
 Start 1
 Name OJ990531_31.0419.C59.o1.np
 Start 1
 GI 4680203
 Exons 1..59, 265..1210
 GI Descrip. (AF114171) TNP2-like protein [Sorghum bicolor]

Seq. ID OJ990531_31.0419.C59
 Strand +
 End 1322
 Method AAT/NAP
 End 1210
 Score 524

Seq. No. 51584
 Gene No. 109274
 Start 1
 Name OJ990531_31.0419.C59.o1.tw
 Start 5
 GI none

Seq. ID OJ990531_31.0419.C59
 Strand +
 End 1322
 Method TBLASTX:Wheat
 End 1099
 Score 151

Exons 5..202, 210..368, 211..420, 439..591, 456..578, 614..796, 624..746, 640..780, 785..832, 836..877, 839..877, 901..1005, 902..1006, 1007..1099

Seq. No.	51584	Seq. ID	OJ990531_31.0419.C59
Gene No.	109274	Strand	+
Start	1	End	1322
Name	OJ990531_31.0419.C59.o1.tc	Method	TBLASTX:Cress
Start	210	End	591
GI	none	Score	199
Exons	210..368, 211..420, 439..591, 456..578		

Seq. No.	51584	Seq. ID	OJ990531_31.0419.C59
Gene No.	109274	Strand	+
Start	1	End	1322
Name	OJ990531_31.0419.C59.o1.gs	Method	GENSCAN
Start	211	End	1186
GI	none	Score	.78
Exons	211..549, 650..1186		

Seq. No.	51584	Seq. ID	OJ990531_31.0419.C59
Gene No.	109274	Strand	+
Start	1	End	1322
Name	OJ990531_31.0419.C59.o1.gp	Method	AAT/GAP
Start	547	End	1322
GI	5002953	Score	457
Exons	547..662, 1142..1322		
GI Descrip.	4680203/gb AAD27566.1 AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51585	Seq. ID	OJ990531_31.0419.C60
Gene No.	109275	Strand	+
Start	1098	End	3157
Name	OJ990531_31.0419.C60.o1.gs	Method	GENSCAN
Start	1098	End	3157
GI	none	Score	.72
Exons	1098..1227, 1316..1562, 1620..1749, 1826..2047, 2284..2586, 2669..3157		

Seq. No.	51586	Seq. ID	OJ990531_31.0419.C61
Gene No.	109276	Strand	+
Start	3302	End	9559
Name	OJ990531_31.0419.C61.o1.np	Method	AAT/NAP
Start	3302	End	7023
GI	188864	Score	93
Exons	3302..3328, 4525..5040, 6910..7023		
GI Descrip.	(M74027) mucin [Homo sapiens]		

Seq. No.	51586	Seq. ID	OJ990531_31.0419.C61
Gene No.	109276	Strand	+
Start	3302	End	9559
Name	OJ990531_31.0419.C61.o2.gs	Method	GENSCAN
Start	4718	End	9559
GI	none	Score	.61
Exons	4718..4966, 6541..6641, 9454..9559		

Seq. No.	51587	Seq. ID	OJ990531_31.0419.C62
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Gene No.	109277	Strand	+
Start	671	End	4117
Name	OJ990531_31.0419.C62.o1.gs	Method	GENSCAN
Start	671	End	4117
GI	none	Score	.63
Exons	671..760, 971..1375, 1451..1635, 2058..2185, 4023..4117		

Seq. No.	51587	Seq. ID	OJ990531_31.0419.C62
Gene No.	109278	Strand	-
Start	5660	End	6971
Name	OJ990531_31.0419.C62.o1.np	Method	AAT/NAP
Start	4682	End	6971
GI	6721515	Score	148
Exons	4682..4830, 5416..5510, 6408..6550, 6720..6971		
GI Descrip.	(AP001072) Similar to mudrA. (M76978) [Oryza sativa]		

Seq. No.	51587	Seq. ID	OJ990531_31.0419.C62
Gene No.	109278	Strand	-
Start	5660	End	6971
Name	OJ990531_31.0419.C62.o2.gs	Method	GENSCAN
Start	5660	End	6112
GI	none	Score	.83
Exons	5660..6112		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109279	Strand	+
Start	529	End	605
Name	OJ990531_31.0419.C63.o1.gs	Method	GENSCAN
Start	529	End	605
GI	none	Score	.64
Exons	529..605		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109280	Strand	+
Start	3876	End	5307
Name	OJ990531_31.0419.C63.o1.np	Method	AAT/NAP
Start	3861	End	5301
GI	2501494	Score	533
Exons	3861..5301		
GI Descrip.	FLAVONOL 3-O-GLUCOSYLTRANSFERASE 5 (UDP-GLUCOSE FLAVONOID 3-O-GLUCOSYLTRANSFERASE 5) gi 542015 pir S41951 UTP-glucose glucosyltransferase - cassava gi 453249 emb CAA54612 (X77462) UTP-glucose glucosyltransferase [Manihot esculenta]		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109280	Strand	+
Start	3876	End	5307
Name	OJ990531_31.0419.C63.o2.gs	Method	GENSCAN
Start	3876	End	5307
GI	none	Score	.5
Exons	3876..4781, 4903..5307		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109281	Strand	+
Start	6623	End	6788
Name	OJ990531_31.0419.C63.o3.gs	Method	GENSCAN
Start	6623	End	6788

GI	none	Score	.96
Exons	6623..6685, 6747..6788		
Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109282	Strand	-
Start	8312	End	10615
Name	OJ990531_31.0419.C63.o1.ts	Method	TBLASTX:Soybean
Start	3855	End	5226
GI	none	Score	70
Exons	3855..3968, 4212..4331, 4380..4535, 4587..4613, 4588..4617, 4650..4799, 4651..4800, 4825..4881, 4887..5021, 4888..5226, 4927..5061		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109282	Strand	-
Start	8312	End	10615
Name	OJ990531_31.0419.C63.o1.tm	Method	TBLASTX:Maize
Start	3882	End	5255
GI	none	Score	90
Exons	3882..4001, 3893..4000, 4153..4191, 4215..4580, 4578..4634, 4585..4617, 4623..4871, 4624..4815, 4828..4881, 4833..4931, 4876..5082, 4878..5132, 5082..5255, 5095..5226		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109282	Strand	-
Start	8312	End	10615
Name	OJ990531_31.0419.C63.o1.tw	Method	TBLASTX:Wheat
Start	4211	End	4508
GI	none	Score	208
Exons	4211..4504, 4212..4508		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109282	Strand	-
Start	8312	End	10615
Name	OJ990531_31.0419.C63.o1.tc	Method	TBLASTX:Cress
Start	4485	End	5112
GI	none	Score	50
Exons	4485..4562, 4502..4534, 4578..4637, 4588..4644, 4633..4806, 4650..4808, 4878..5054, 4891..5112, 4912..5070		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109282	Strand	-
Start	8312	End	10615
Name	OJ990531_31.0419.C63.o2.tw	Method	TBLASTX:Wheat
Start	4735	End	5064
GI	none	Score	58
Exons	4735..4818, 4876..5064, 4878..5027, 4936..5049		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109282	Strand	-
Start	8312	End	10615
Name	OJ990531_31.0419.C63.o3.tm	Method	TBLASTX:Maize
Start	7231	End	7647
GI	none	Score	78
Exons	7231..7647, 7304..7402		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
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Gene No.	109282	Strand	-
Start	8312	End	10615
Name	OJ990531_31.0419.C63.o3.np	Method	AAT/NAP
Start	7237	End	10201
GI	7363274	Score	922
Exons	7237..8092, 8799..9033, 9130..9313, 9416..9727, 9809..10201		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F17A8; putative protein. (AL049482) [Oryza sativa]		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109282	Strand	-
Start	8312	End	10615
Name	OJ990531_31.0419.C63.o2.np	Method	AAT/NAP
Start	7330	End	10255
GI	7485592	Score	979
Exons	7330..8092, 8799..9060, 9121..9330, 9432..9704, 9813..10255		
GI Descrip.	hypothetical protein F17A8.10 - Arabidopsis thaliana gi 4538896 emb CAB39633.1 (AL049482) putative protein [Arabidopsis thaliana] gi 7267661 emb CAB78089.1 (AL161515) putative protein [Arabidopsis thaliana]		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109282	Strand	-
Start	8312	End	10615
Name	OJ990531_31.0419.C63.o4.gs	Method	GENSCAN
Start	8312	End	10615
GI	none	Score	.48
Exons	8312..8455, 8933..9076, 9615..9727, 10078..10333, 10526..10615		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109282	Strand	-
Start	8312	End	10615
Name	OJ990531_31.0419.C63.o2.tm	Method	TBLASTX:Maize
Start	8819	End	9229
GI	none	Score	92
Exons	8819..8917, 8826..8909, 8921..9199, 8921..9229, 8955..9209		

Seq. No.	51588	Seq. ID	OJ990531_31.0419.C63
Gene No.	109282	Strand	-
Start	8312	End	10615
Name	OJ990531_31.0419.C63.o4.tm	Method	TBLASTX:Maize
Start	9649	End	10111
GI	none	Score	55
Exons	9649..9717, 9651..9713, 9711..9851, 9712..9825, 9965..10054, 9965..10069, 10076..10111		

Seq. No.	51589	Seq. ID	OJ990531_31.0419.C64
Gene No.	109283	Strand	+
Start	187	End	326
Name	OJ990531_31.0419.C64.o1.gp	Method	AAT/GAP
Start	187	End	326
GI	LIB3474-009-P1-K1-F11	Score	228
Exons	187..326		
GI Descrip.	'4455244/emb CAB36743.1 6.0e-11 (AL035523) MtN3-like protein [Arabidopsis thaliana]'		

Seq. No.	51590	Seq. ID	OJ990531_31.0419.C65
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Gene No.	109284	Strand	-
Start	743	End	1907
Name	OJ990531_31.0419.C65.o1.gs	Method	GENSCAN
Start	743	End	1907
GI	none	Score	.81
Exons	743..909, 1829..1907		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109285	Strand	+
Start	2167	End	3313
Name	OJ990531_31.0419.C66.o1.gp	Method	AAT/GAP
Start	2167	End	3313
GI	uC-osflm202099e04b1	Score	887
Exons	2167..2499, 2584..2604, 3182..3313		
GI Descrip.	'3913437/sp Q38953 DDX8_ARATH 2.0e-32 PUTATIVE PRE-MRNA SPLICING FACTOR ATP-DEPENDENT RNA HELICASE >gi_1402875_emb_CAA66825_(X98130) RNA helicase [Arabidopsis thaliana] >gi_1495271_emb_CAA66613_(X97970) RNA helicase [Arabidopsis thaliana]'		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109286	Strand	+
Start	4064	End	4494
Name	OJ990531_31.0419.C66.o2.gp	Method	AAT/GAP
Start	4064	End	4494
GI	2312777	Score	806
Exons	4064..4494		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109287	Strand	+
Start	5452	End	8352
Name	OJ990531_31.0419.C66.o1.np	Method	AAT/NAP
Start	5452	End	8352
GI	3913437	Score	3827
Exons	5452..8352		
GI Descrip.	PUTATIVE PRE-MRNA SPLICING FACTOR ATP-DEPENDENT RNA HELICASE gi 1402875 emb CAA66825 (X98130) RNA helicase [Arabidopsis thaliana] gi 1495271 emb CAA66613 (X97970) RNA helicase [Arabidopsis thaliana]		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109287	Strand	+
Start	5452	End	8352
Name	OJ990531_31.0419.C66.o3.gp	Method	AAT/GAP
Start	5566	End	6138
GI	3760156	Score	1107
Exons	5566..6138		
GI Descrip.	3913437/sp Q38953 DDX8_ARATH 2.0e-32 PUTATIVE PRE-MRNA SPLICING FACTOR ATP-DEPENDENT RNA HELICASE >gi_1402875_emb_CAA66825_(X98130) RNA helicase [Arabidopsis thaliana] >gi_1495271_emb_CAA66613_(X97970) RNA helicase [Arabidopsis thaliana]		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109288	Strand	+
Start	11227	End	13704
Name	OJ990531_31.0419.C66.o3.np	Method	AAT/NAP

Start	11227	End	13704
GI	5882744	Score	126
Exons	11227..11411, 13613..13704		
GI Descrip.	(AC008263) Strong similarity to gb AF031243 nodule-specific protein (Nlj70) from Lotus japonicus and is a member of the PF 00083 Sugar (and other) transporter family. EST gb Z37715 comes from this gene. [Arabidopsi...		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109288	Strand	+
Start	11227	End	13704
Name	OJ990531_31.0419.C66.o2.gs	Method	GENSCAN
Start	13200	End	13583
GI	none	Score	.84
Exons	13200..13583		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109289	Strand	-
Start	8189	End	8483
Name	OJ990531_31.0419.C66.o4.gp	Method	AAT/GAP
Start	8189	End	8483
GI	1518_1.R1084	Score	516
Exons	8189..8483		
GI Descrip.	'3913437/sp Q38953 DDX8_ARATH 3.0e-13 PUTATIVE PRE-MRNA SPLICING FACTOR ATP-DEPENDENT RNA HELICASE >gi_1402875_emb_CAA66825_ (X98130) RNA helicase [Arabidopsis thaliana] >gi_1495271_emb_CAA66613_ (X97970) RNA helicase [Arabidopsis thaliana]'		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109290	Strand	-
Start	9451	End	11856
Name	OJ990531_31.0419.C66.o4.tm	Method	TBLASTX:Maize
Start	5098	End	5340
GI	none	Score	237
Exons	5098..5340, 5146..5319		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109290	Strand	-
Start	9451	End	11856
Name	OJ990531_31.0419.C66.o1.tc	Method	TBLASTX:Cress
Start	5143	End	8455
GI	none	Score	157
Exons	5143..5301, 5167..5301, 5208..5303, 5455..5607, 5610..5753, 5611..5754, 5739..5834, 5740..5838, 5850..5930, 5896..5964, 5957..6046, 5959..8355, 6036..8348, 8366..8455		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109290	Strand	-
Start	9451	End	11856
Name	OJ990531_31.0419.C66.o4.ts	Method	TBLASTX:Soybean
Start	5146	End	5358
GI	none	Score	247
Exons	5146..5358, 5167..5322, 5214..5354		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109290	Strand	-

Start	9451	End	11856
Name	OJ990531_31.0419.C66.o2.ts	Method	TBLASTX:Soybean
Start	6207	End	6693
GI	none	Score	116
Exons	6207..6413, 6207..6692, 6208..6693		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109290	Strand	-
Start	9451	End	11856
Name	OJ990531_31.0419.C66.o2.tm	Method	TBLASTX:Maize
Start	6367	End	6786
GI	none	Score	425
Exons	6367..6744, 6373..6726, 6378..6743, 6733..6786		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109290	Strand	-
Start	9451	End	11856
Name	OJ990531_31.0419.C66.o3.ts	Method	TBLASTX:Soybean
Start	6760	End	7107
GI	none	Score	357
Exons	6760..7107, 6762..7067		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109290	Strand	-
Start	9451	End	11856
Name	OJ990531_31.0419.C66.o1.tm	Method	TBLASTX:Maize
Start	6849	End	8325
GI	none	Score	310
Exons	6849..6884, 6850..7185, 6909..7058, 7133..7186, 7180..7407, 7184..7546, 7186..7734, 7194..7412, 7450..7545, 7479..7685, 7744..7983, 7744..7956, 7755..7973, 8005..8121, 8065..8325		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109290	Strand	-
Start	9451	End	11856
Name	OJ990531_31.0419.C66.o1.ts	Method	TBLASTX:Soybean
Start	7153	End	8253
GI	none	Score	574
Exons	7153..7713, 7158..7709, 7714..8124, 7758..8069, 8133..8237, 8134..8253		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109290	Strand	-
Start	9451	End	11856
Name	OJ990531_31.0419.C66.o3.tm	Method	TBLASTX:Maize
Start	9448	End	9861
GI	none	Score	201
Exons	9448..9672, 9449..9667, 9763..9861, 9767..9850		

Seq. No.	51591	Seq. ID	OJ990531_31.0419.C66
Gene No.	109290	Strand	-
Start	9451	End	11856
Name	OJ990531_31.0419.C66.o2.np	Method	AAT/NAP
Start	9451	End	11856
GI	7452036	Score	247
Exons	9451..9667, 9764..9854, 11820..11856		
GI Descrip.	hypothetical protein F21B7.6 - Arabidopsis thaliana		

gi|2809237|gb|AAB97697.1| (AC002560) F21B7.6 [Arabidopsis thaliana]

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109291	Strand	+
Start	2859	End	10033
Name	OJ990531_31.0419.C67.o2.gs	Method	GENSCAN
Start	2859	End	10033
GI	none	Score	.61
Exons	2859..3000, 5211..5553, 5625..8294, 8344..8477, 8499..9051, 9094..9687, 9760..10033		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109291	Strand	+
Start	2859	End	10033
Name	OJ990531_31.0419.C67.o2.np	Method	AAT/NAP
Start	5231	End	10030
GI	5295971	Score	7961
Exons	5231..10030		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109292	Strand	-
Start	1	End	396
Name	OJ990531_31.0419.C67.o1.np	Method	AAT/NAP
Start	1	End	396
GI	5295971	Score	278
Exons	1..396		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109292	Strand	-
Start	1	End	396
Name	OJ990531_31.0419.C67.o1.gs	Method	GENSCAN
Start	96	End	396
GI	none	Score	.44
Exons	96..396		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109293	Strand	-
Start	7072	End	7507
Name	OJ990531_31.0419.C67.o1.gp	Method	AAT/GAP
Start	7072	End	7507
GI	uC-osflM2020118f01a1	Score	797
Exons	7072..7507		
GI Descrip.	'5295971/dbj BAA81872.1 4.0e-64 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]'		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109294	Strand	-
Start	9202	End	9656

Name	OJ990531_31.0419.C67.o2.gp	Method	AAT/GAP
Start	9202	End	9656
GI	36280_1.R1084	Score	850
Exons	9202..9656		
GI Descrip.	'5295971/dbj BAA81872.1 1.0e-81 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]'		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o4.tw	Method	TBLASTX:Wheat
Start	3298	End	3576
GI	none	Score	294
Exons	3298..3576, 3333..3563		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o2.tc	Method	TBLASTX:Cress
Start	3339	End	3585
GI	none	Score	265
Exons	3339..3557, 3340..3585, 3382..3567, 3398..3568		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o1.ts	Method	TBLASTX:Soybean
Start	3340	End	3888
GI	none	Score	295
Exons	3340..3594, 3348..3602, 3348..3605, 3349..3609, 3434..3688, 3434..3649, 3673..3831, 3679..3768, 3681..3803, 3850..3888		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o5.tm	Method	TBLASTX:Maize
Start	3391	End	3888
GI	none	Score	252
Exons	3391..3606, 3391..3639, 3548..3637, 3672..3887, 3673..3888, 3676..3762, 3681..3887		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o10.tm	Method	TBLASTX:Maize
Start	4192	End	11759
GI	none	Score	95
Exons	4192..4269, 4197..4280, 4197..4277, 10485..10595, 10488..10595, 10495..10596, 10501..10596, 11504..11617, 11505..11615, 11505..11627, 11733..11759		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o7.tm	Method	TBLASTX:Maize

Start	5618	End	5910
GI	none	Score	45
Exons	5618..5653, 5688..5834, 5689..5910, 5689..5910		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o1.tm	Method	TBLASTX:Maize
Start	6144	End	6864
GI	none	Score	258
Exons	6144..6419, 6145..6420, 6162..6419, 6402..6434, 6439..6864, 6440..6763, 6499..6864		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o1.tw	Method	TBLASTX:Wheat
Start	6796	End	7242
GI	none	Score	338
Exons	6796..7155, 6810..7094, 7150..7242, 7162..7242		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o8.tm	Method	TBLASTX:Maize
Start	6879	End	7119
GI	none	Score	308
Exons	6879..7118, 6880..7119		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o5.ts	Method	TBLASTX:Soybean
Start	7180	End	7455
GI	none	Score	198
Exons	7180..7455, 7276..7356		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o3.tw	Method	TBLASTX:Wheat
Start	7315	End	7866
GI	none	Score	116
Exons	7315..7455, 7513..7779, 7530..7679, 7782..7853, 7786..7866		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o2.tm	Method	TBLASTX:Maize
Start	7518	End	7945
GI	none	Score	696
Exons	7518..7943, 7522..7944, 7549..7944, 7904..7945		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o3.ts	Method	TBLASTX:Soybean

Start	7549	End	8029
GI	none	Score	348
Exons	7549..7857, 7554..7844, 7882..7950, 7961..8029		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o4.tc	Method	TBLASTX:Cress
Start	7564	End	7956
GI	none	Score	202
Exons	7564..7860, 7614..7646, 7704..7850, 7882..7956		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o2.ts	Method	TBLASTX:Soybean
Start	8480	End	8977
GI	5509260	Score	423
Exons	8480..8977, 8560..8736, 8800..8958		
GI Descrip.	-		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o6.tm	Method	TBLASTX:Maize
Start	8531	End	8827
GI	none	Score	387
Exons	8531..8827, 8538..8669, 8557..8826		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o3.tc	Method	TBLASTX:Cress
Start	8602	End	8866
GI	none	Score	244
Exons	8602..8733, 8603..8866		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o2.tw	Method	TBLASTX:Wheat
Start	8624	End	8965
GI	none	Score	334
Exons	8624..8965, 8641..8736, 8797..8961		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506
Name	OJ990531_31.0419.C67.o3.tm	Method	TBLASTX:Maize
Start	9028	End	9420
GI	none	Score	138
Exons	9028..9117, 9028..9117, 9115..9348, 9124..9222, 9128..9418, 9149..9418, 9271..9420		

Seq. No.	51592	Seq. ID	OJ990531_31.0419.C67
Gene No.	109295	Strand	-
Start	11835	End	12506

Name OJ990531_31.0419.C67.o5.tw
 Start 9155
 GI none
 Exons 9155..9310, 9335..9529

Method TBLASTX:Wheat
 End 9529
 Score 93

Seq. No. 51592
 Gene No. 109295
 Start 11835
 Name OJ990531_31.0419.C67.o1.tc
 Start 9335
 GI none
 Exons 9335..9625, 9397..9507, 9529..9624, 9632..9694, 9639..9728, 9779..9997, 9799..9963

Seq. ID OJ990531_31.0419.C67
 Strand -
 End 12506
 Method TBLASTX:Cress
 End 9997
 Score 254

Seq. No. 51592
 Gene No. 109295
 Start 11835
 Name OJ990531_31.0419.C67.o4.ts
 Start 9356
 GI none
 Exons 9356..9517, 9529..9675, 9530..9691, 9773..10006, 9773..9847

Seq. ID OJ990531_31.0419.C67
 Strand -
 End 12506
 Method TBLASTX:Soybean
 End 10006
 Score 144

Seq. No. 51592
 Gene No. 109295
 Start 11835
 Name OJ990531_31.0419.C67.o9.tm
 Start 9422
 GI none
 Exons 9422..9601, 9424..9600

Seq. ID OJ990531_31.0419.C67
 Strand -
 End 12506
 Method TBLASTX:Maize
 End 9601
 Score 192

Seq. No. 51592
 Gene No. 109295
 Start 11835
 Name OJ990531_31.0419.C67.o6.tw
 Start 9548
 GI none
 Exons 9548..9694, 9631..9675, 9764..9967, 9773..9955

Seq. ID OJ990531_31.0419.C67
 Strand -
 End 12506
 Method TBLASTX:Wheat
 End 9967
 Score 106

Seq. No. 51592
 Gene No. 109295
 Start 11835
 Name OJ990531_31.0419.C67.o4.tm
 Start 9607
 GI none
 Exons 9607..9678, 9608..9994, 9610..9996, 9639..9845, 9659..9994, 9796..9996

Seq. ID OJ990531_31.0419.C67
 Strand -
 End 12506
 Method TBLASTX:Maize
 End 9996
 Score 458

Seq. No. 51592
 Gene No. 109295
 Start 11835
 Name OJ990531_31.0419.C67.o3.gs
 Start 11835
 GI none
 Exons 11835..11843, 12009..12149, 12291..12506

Seq. ID OJ990531_31.0419.C67
 Strand -
 End 12506
 Method GENSCAN
 End 12506
 Score .88

Seq. No. 51593
 Gene No. 109296

Seq. ID OJ990531_31.0419.C68
 Strand +

Start	18	End	149
Name	OJ990531_31.0419.C68.o1.gs	Method	GENSCAN
Start	18	End	149
GI	none	Score	.84
Exons	18..149		

Seq. No.	51593	Seq. ID	OJ990531_31.0419.C68
Gene No.	109297	Strand	-
Start	337	End	479
Name	OJ990531_31.0419.C68.o1.np	Method	AAT/NAP
Start	337	End	479
GI	5852093	Score	68
Exons	337..479		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	51594	Seq. ID	OJ990531_31.0419.C70
Gene No.	109298	Strand	+
Start	287	End	637
Name	OJ990531_31.0419.C70.o1.gs	Method	GENSCAN
Start	287	End	637
GI	none	Score	.89
Exons	287..637		

Seq. No.	51594	Seq. ID	OJ990531_31.0419.C70
Gene No.	109298	Strand	+
Start	287	End	637
Name	OJ990531_31.0419.C70.o1.gp	Method	AAT/GAP
Start	409	End	480
GI	none	Score	100
Exons	409..480		

Seq. No.	51594	Seq. ID	OJ990531_31.0419.C70
Gene No.	109299	Strand	-
Start	1172	End	1587
Name	OJ990531_31.0419.C70.o2.gs	Method	GENSCAN
Start	1172	End	1587
GI	none	Score	.67
Exons	1172..1237, 1555..1587		

Seq. No.	51595	Seq. ID	OJ990531_31.0419.C71
Gene No.	109300	Strand	+
Start	455	End	603
Name	OJ990531_31.0419.C71.o1.gs	Method	GENSCAN
Start	455	End	603
GI	none	Score	.57
Exons	455..603		

Seq. No.	51595	Seq. ID	OJ990531_31.0419.C71
Gene No.	109301	Strand	-
Start	356	End	439
Name	OJ990531_31.0419.C71.o1.np	Method	AAT/NAP
Start	356	End	439
GI	5852084	Score	77
Exons	356..439		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	51595	Seq. ID	OJ990531_31.0419.C71
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Gene No. 109302
 Start 1054
 Name OJ990531_31.0419.C71.o2.gs
 Start 1054
 GI none
 Exons 1054..1192, 1472..1560

Strand -
 End 1560
 Method GENSCAN
 End 1560
 Score .65

Seq. No. 51596
 Gene No. 109303
 Start 15
 Name OJ990531_31.0419.C72.o1.gs
 Start 15
 GI none
 Exons 15..174

Seq. ID OJ990531_31.0419.C72
 Strand -
 End 174
 Method GENSCAN
 End 174
 Score .82

Seq. No. 51597
 Gene No. 109304
 Start 806
 Name OJ990531_31.0419.C73.o1.gs
 Start 806
 GI none
 Exons 806..1005, 1248..1308

Seq. ID OJ990531_31.0419.C73
 Strand -
 End 1308
 Method GENSCAN
 End 1308
 Score .56

Seq. No. 51597
 Gene No. 109305
 Start 1438
 Name OJ990531_31.0419.C73.o1.gp
 Start 1438
 GI none
 Exons 1438..1543

Seq. ID OJ990531_31.0419.C73
 Strand -
 End 1543
 Method AAT/GAP
 End 1543
 Score 186

Seq. No. 51598
 Gene No. 109306
 Start 560
 Name OJ990531_31.0419.C83.o1.gs
 Start 560
 GI none
 Exons 560..925

Seq. ID OJ990531_31.0419.C83
 Strand -
 End 925
 Method GENSCAN
 End 925
 Score .61

Seq. No. 51599
 Gene No. 109307
 Start 221
 Name OJ990531_31.0419.C86.o1.gs
 Start 221
 GI none
 Exons 221..280, 324..464, 482..583

Seq. ID OJ990531_31.0419.C86
 Strand -
 End 583
 Method GENSCAN
 End 583
 Score .53

Seq. No. 51600
 Gene No. 109308
 Start 1
 Name OJ990531_31.0419.C94.o1.np
 Start 1
 GI 5669167
 Exons 1..202, 313..411, 515..634, 712..777
 GI Descrip. (AF156691) plasma membrane proton ATPase [Nicotiana plumbaginifolia]

Seq. ID OJ990531_31.0419.C94
 Strand -
 End 777
 Method AAT/NAP
 End 777
 Score 409

Seq. No.	51600	Seq. ID	OJ990531_31.0419.C94
Gene No.	109308	Strand	-
Start	1	End	777
Name	OJ990531_31.0419.C94.o1.tm	Method	TBLASTX:Maize
Start	59	End	635
GI	none	Score	125
Exons	59..208, 62..208, 308..412, 313..414, 510..635, 515..634		

Seq. No.	51600	Seq. ID	OJ990531_31.0419.C94
Gene No.	109308	Strand	-
Start	1	End	777
Name	OJ990531_31.0419.C94.o1.tw	Method	TBLASTX:Wheat
Start	62	End	635
GI	none	Score	114
Exons	62..208, 62..208, 313..414, 314..412, 510..635, 515..634		

Seq. No.	51600	Seq. ID	OJ990531_31.0419.C94
Gene No.	109308	Strand	-
Start	1	End	777
Name	OJ990531_31.0419.C94.o1.gs	Method	GENSCAN
Start	65	End	774
GI	none	Score	.9
Exons	65..202, 313..411, 515..634, 712..774		

Seq. No.	51600	Seq. ID	OJ990531_31.0419.C94
Gene No.	109308	Strand	-
Start	1	End	777
Name	OJ990531_31.0419.C94.o1.ts	Method	TBLASTX:Soybean
Start	66	End	635
GI	none	Score	95
Exons	66..143, 89..190, 116..208, 308..412, 313..414, 504..635, 515..634		

Seq. No.	51600	Seq. ID	OJ990531_31.0419.C94
Gene No.	109308	Strand	-
Start	1	End	777
Name	OJ990531_31.0419.C94.o1.tc	Method	TBLASTX:Cress
Start	80	End	740
GI	none	Score	77
Exons	80..202, 99..188, 116..208, 313..414, 314..412, 501..635, 515..634, 696..740		

Seq. No.	51601	Seq. ID	OJ990531_31.0419.C95
Gene No.	109309	Strand	+
Start	1	End	1349
Name	OJ990531_31.0419.C95.o1.np	Method	AAT/NAP
Start	1	End	1349
GI	4105639	Score	627
Exons	1..148, 298..355, 840..995, 1214..1349		
GI Descrip.	(AF049356) phytoene desaturase precursor [Oryza sativa]		

Seq. No.	51601	Seq. ID	OJ990531_31.0419.C95
Gene No.	109309	Strand	+
Start	1	End	1349
Name	OJ990531_31.0419.C95.o1.ts	Method	TBLASTX:Soybean
Start	47	End	1349
GI	none	Score	101

Exons 47..133, 75..134, 295..354, 841..996, 842..997, 1207..1347, 1212..1349

Seq. No. 51601 Seq. ID OJ990531_31.0419.C95
Gene No. 109309 Strand +
Start 1 End 1349
Name OJ990531_31.0419.C95.o1.tc Method TBLASTX:Cress
Start 47 End 1349
GI none Score 99
Exons 47..133, 75..134, 295..354, 296..355, 297..356, 841..996, 842..997, 1206..1349, 1207..1347

Seq. No. 51601 Seq. ID OJ990531_31.0419.C95
Gene No. 109309 Strand +
Start 1 End 1349
Name OJ990531_31.0419.C95.o1.gp Method AAT/GAP
Start 61 End 1349
GI 841_1.R1084 Score 774
Exons 61..148, 298..355, 840..995, 1214..1349
GI Descrip. '4105639/gb|AAD02489.1| 0.0e+00 (AF049356) phytoene desaturase precursor [Oryza sativa]'

Seq. No. 51601 Seq. ID OJ990531_31.0419.C95
Gene No. 109309 Strand +
Start 1 End 1349
Name OJ990531_31.0419.C95.o1.tm Method TBLASTX:Maize
Start 295 End 1349
GI none Score 113
Exons 295..354, 299..355, 827..985, 835..996, 841..996, 842..997, 1164..1343, 1207..1347, 1212..1349

Seq. No. 51601 Seq. ID OJ990531_31.0419.C95
Gene No. 109309 Strand +
Start 1 End 1349
Name OJ990531_31.0419.C95.o1.gs Method GENSCAN
Start 314 End 995
GI none Score .78
Exons 314..329, 840..995

Seq. No. 51602 Seq. ID OJ990531_31.0419.C96
Gene No. 109310 Strand +
Start 1 End 965
Name OJ990531_31.0419.C96.o1.np Method AAT/NAP
Start 1 End 965
GI 4105639 Score 439
Exons 1..21, 179..233, 568..754, 863..965
GI Descrip. (AF049356) phytoene desaturase precursor [Oryza sativa]

Seq. No. 51602 Seq. ID OJ990531_31.0419.C96
Gene No. 109310 Strand +
Start 1 End 965
Name OJ990531_31.0419.C96.o1.tm Method TBLASTX:Maize
Start 179 End 665
GI none Score 86
Exons 179..232, 187..231, 553..663, 561..665

Seq. No. 51602 Seq. ID OJ990531_31.0419.C96

Gene No.	109310	Strand	+
Start	1	End	965
Name	OJ990531_31.0419.C96.o1.gp	Method	AAT/GAP
Start	185	End	965
GI	841.1.R1084	Score	581
Exons	185..233, 568..754, 863..965		
GI Descrip.	'4105639/gb AAD02489.1 0.0e+00 (AF049356) phytoene desaturase precursor [Oryza sativa]'		

Seq. No.	51602	Seq. ID	OJ990531_31.0419.C96
Gene No.	109310	Strand	+
Start	1	End	965
Name	OJ990531_31.0419.C96.o1.tw	Method	TBLASTX:Wheat
Start	185	End	965
GI	none	Score	66
Exons	185..235, 187..234, 559..666, 565..666, 566..667, 566..673, 667..756, 669..755, 669..764, 860..964, 861..965, 867..965		

Seq. No.	51602	Seq. ID	OJ990531_31.0419.C96
Gene No.	109310	Strand	+
Start	1	End	965
Name	OJ990531_31.0419.C96.o1.tc	Method	TBLASTX:Cress
Start	186	End	965
GI	none	Score	72
Exons	186..233, 560..652, 565..669, 567..689, 567..665, 669..755, 671..754, 677..757, 860..964, 861..965		

Seq. No.	51602	Seq. ID	OJ990531_31.0419.C96
Gene No.	109310	Strand	+
Start	1	End	965
Name	OJ990531_31.0419.C96.o1.ts	Method	TBLASTX:Soybean
Start	186	End	965
GI	none	Score	73
Exons	186..233, 202..237, 560..646, 565..666, 567..665, 654..755, 671..754, 675..764, 676..756, 860..964, 861..965		

Seq. No.	51602	Seq. ID	OJ990531_31.0419.C96
Gene No.	109310	Strand	+
Start	1	End	965
Name	OJ990531_31.0419.C96.o1.gs	Method	GENSCAN
Start	188	End	675
GI	none	Score	.95
Exons	188..233, 568..675		

Seq. No.	51602	Seq. ID	OJ990531_31.0419.C96
Gene No.	109310	Strand	+
Start	1	End	965
Name	OJ990531_31.0419.C96.o2.tm	Method	TBLASTX:Maize
Start	702	End	965
GI	none	Score	84
Exons	702..755, 702..749, 860..964, 861..965		

Seq. No.	51603	Seq. ID	OJ990531_31.0419.C97
Gene No.	109311	Strand	-
Start	133	End	740
Name	OJ990531_31.0419.C97.o1.gp	Method	AAT/GAP
Start	133	End	740

GI	none	Score	468
Exons	133..353, 648..740		
Seq. No.	51604	Seq. ID	OJ990531_31.0419.C99
Gene No.	109312	Strand	-
Start	1	End	1234
Name	OJ990531_31.0419.C99.o1.np	Method	AAT/NAP
Start	1	End	1234
GI	6469087	Score	152
Exons	1..91, 946..1234		
GI Descrip.	(AB005788) nicotianamine aminotransferase B [Hordeum vulgare]		
Seq. No.	51604	Seq. ID	OJ990531_31.0419.C99
Gene No.	109312	Strand	-
Start	1	End	1234
Name	OJ990531_31.0419.C99.o1.gp	Method	AAT/GAP
Start	57	End	988
GI	4715663	Score	100
Exons	57..92, 950..988		
GI Descrip.	4559366/gb AAD23027.1 AC006585_22 7.0e-50 (AC006585) putative tyrosine transaminase [Arabidopsis thaliana]		
Seq. No.	51604	Seq. ID	OJ990531_31.0419.C99
Gene No.	109312	Strand	-
Start	1	End	1234
Name	OJ990531_31.0419.C99.o1.gs	Method	GENSCAN
Start	925	End	1227
GI	none	Score	.9
Exons	925..1227		
Seq. No.	51605	Seq. ID	OJ990531_31.0419.C100
Gene No.	109313	Strand	+
Start	1162	End	1248
Name	OJ990531_31.0419.C100.o1.gp	Method	AAT/GAP
Start	1162	End	1248
GI	uC-osflcyp034f07b1	Score	127
Exons	1162..1248		
GI Descrip.	'5670155/gb AF161269.1 AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		
Seq. No.	51605	Seq. ID	OJ990531_31.0419.C100
Gene No.	109314	Strand	+
Start	2148	End	4781
Name	OJ990531_31.0419.C100.o2.gs	Method	GENSCAN
Start	2148	End	4040
GI	none	Score	.66
Exons	2148..2219, 2543..2706, 2802..2871, 3639..4040		
Seq. No.	51605	Seq. ID	OJ990531_31.0419.C100
Gene No.	109314	Strand	+
Start	2148	End	4781
Name	OJ990531_31.0419.C100.o1.np	Method	AAT/NAP
Start	3621	End	4778
GI	7523486	Score	383
Exons	3621..3723, 3770..3931, 4668..4778		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	51605	Seq. ID	OJ990531_31.0419.C100
Gene No.	109314	Strand	+
Start	2148	End	4781
Name	OJ990531_31.0419.C100.o3.gs	Method	GENSCAN
Start	4509	End	4781
GI	none	Score	.68
Exons	4509..4781		

Seq. No.	51605	Seq. ID	OJ990531_31.0419.C100
Gene No.	109315	Strand	+
Start	6438	End	7365
Name	OJ990531_31.0419.C100.o4.gs	Method	GENSCAN
Start	6438	End	7365
GI	none	Score	.93
Exons	6438..6886, 7254..7365		

Seq. No.	51605	Seq. ID	OJ990531_31.0419.C100
Gene No.	109316	Strand	-
Start	89	End	1405
Name	OJ990531_31.0419.C100.o1.gs	Method	GENSCAN
Start	89	End	1405
GI	none	Score	.45
Exons	89..464, 1395..1405		

Seq. No.	51605	Seq. ID	OJ990531_31.0419.C100
Gene No.	109317	Strand	
Start	6363	End	6937
Name	OJ990531_31.0419.C100.o2.tm	Method	TBLASTX:Maize
Start	6363	End	6863
GI	none	Score	255
Exons	6363..6863, 6393..6863		

Seq. No.	51605	Seq. ID	OJ990531_31.0419.C100
Gene No.	109317	Strand	
Start	6363	End	6937
Name	OJ990531_31.0419.C100.o1.tw	Method	TBLASTX:Wheat
Start	6501	End	6937
GI	none	Score	221
Exons	6501..6794, 6533..6763, 6878..6937		

Seq. No.	51605	Seq. ID	OJ990531_31.0419.C100
Gene No.	109318	Strand	
Start	6875	End	7098
Name	OJ990531_31.0419.C100.o3.tm	Method	TBLASTX:Maize
Start	6875	End	7098
GI	none	Score	202
Exons	6875..7093, 6889..7098		

Seq. No.	51605	Seq. ID	OJ990531_31.0419.C100
Gene No.	109319	Strand	
Start	7094	End	7483
Name	OJ990531_31.0419.C100.o2.tw	Method	TBLASTX:Wheat
Start	7094	End	7483
GI	none	Score	95
Exons	7094..7234, 7328..7483		

Seq. No.	51605	Seq. ID	OJ990531_31.0419.C100
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Gene No.	109320	Strand	
Start	7429	End	7704
Name	OJ990531_31.0419.C100.o1.tm	Method	TBLASTX:Maize
Start	7429	End	7704
GI	none	Score	333
Exons	7429..7704, 7430..7702		

Seq. No.	51606	Seq. ID	OJ990531_31.0419.C101
Gene No.	109321	Strand	+
Start	1563	End	6422
Name	OJ990531_31.0419.C101.o1.gs	Method	GENSCAN
Start	1563	End	6422
GI	none	Score	.53
Exons	1563..1725, 3728..3837, 3950..4011, 4077..4198, 4301..4341, 5330..5469, 5484..5546, 5745..5793, 6294..6422		

Seq. No.	51606	Seq. ID	OJ990531_31.0419.C101
Gene No.	109322	Strand	-
Start	1	End	2447
Name	OJ990531_31.0419.C101.o1.np	Method	AAT/NAP
Start	1	End	2447
GI	7340881	Score	299
Exons	1..242, 1594..1642, 1697..2010, 2096..2219, 2363..2447		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51606	Seq. ID	OJ990531_31.0419.C101
Gene No.	109323	Strand	-
Start	7344	End	7532
Name	OJ990531_31.0419.C101.o2.gs	Method	GENSCAN
Start	7344	End	7532
GI	none	Score	.4
Exons	7344..7532		

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109324	Strand	+
Start	6312	End	9138
Name	OJ990531_31.0419.C102.o2.gs	Method	GENSCAN
Start	6312	End	9138
GI	none	Score	.66
Exons	6312..6326, 6412..6522, 8639..8746, 9115..9138		

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109325	Strand	-
Start	812	End	5208
Name	OJ990531_31.0419.C102.o1.gs	Method	GENSCAN
Start	812	End	5208
GI	none	Score	.82
Exons	812..1002, 1118..1280, 2033..2264, 2299..2594, 2684..2778, 3073..3477, 4001..4228, 4986..5208		

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109325	Strand	-
Start	812	End	5208
Name	OJ990531_31.0419.C102.o1.gp	Method	AAT/GAP
Start	2060	End	2486
GI	LIB3432-060-P1-K1-F10	Score	675
Exons	2060..2486		

GI Descrip. '3386534 1.0e-28 (AF078934) mariner transposase [Glycine max]'

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109325	Strand	-
Start	812	End	5208
Name	OJ990531_31.0419.C102.o1.np	Method	AAT/NAP
Start	2283	End	3370
GI	6539555	Score	988
Exons	2283..2594, 2684..3370		
GI Descrip.	(AP000836) Similar to mariner transposase (AF078934) [Oryza sativa] gi 6539592 dbj BAA88208.1 (AP000837) Similar to mariner transposase (AF078934) [Oryza sativa]		

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109326	Strand	-
Start	12627	End	14425
Name	OJ990531_31.0419.C102.o2.tw	Method	TBLASTX:Wheat
Start	2251	End	2507
GI	none	Score	35
Exons	2251..2298, 2292..2507, 2299..2430		

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109326	Strand	-
Start	12627	End	14425
Name	OJ990531_31.0419.C102.o2.gp	Method	AAT/GAP
Start	12325	End	12620
GI	3762709	Score	536
Exons	12325..12620		

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109326	Strand	-
Start	12627	End	14425
Name	OJ990531_31.0419.C102.o3.gs	Method	GENSCAN
Start	12627	End	14425
GI	none	Score	1
Exons	12627..13256, 13934..14425		

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109326	Strand	-
Start	12627	End	14425
Name	OJ990531_31.0419.C102.o2.np	Method	AAT/NAP
Start	12690	End	14398
GI	1279640	Score	683
Exons	12690..13145, 13218..13256, 13934..14398		
GI Descrip.	(X92204) NAM [Petunia x hybrida] gi 6066595 emb CAA63102.2 (X92205) NAM [Petunia x hybrida]		

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109326	Strand	-
Start	12627	End	14425
Name	OJ990531_31.0419.C102.o1.tc	Method	TBLASTX:Cress
Start	13934	End	14347
GI	none	Score	362
Exons	13934..14347, 13947..14285		

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109326	Strand	-

Start	12627	End	14425
Name	OJ990531_31.0419.C102.o1.ts	Method	TBLASTX:Soybean
Start	13955	End	14347
GI	none	Score	125
Exons	13955..14077, 13971..14066, 14082..14267, 14087..14347		

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109326	Strand	-
Start	12627	End	14425
Name	OJ990531_31.0419.C102.o1.tm	Method	TBLASTX:Maize
Start	13967	End	14347
GI	none	Score	108
Exons	13967..14065, 13968..14063, 14060..14347, 14061..14279, 14249..14347		

Seq. No.	51607	Seq. ID	OJ990531_31.0419.C102
Gene No.	109326	Strand	-
Start	12627	End	14425
Name	OJ990531_31.0419.C102.o1.tw	Method	TBLASTX:Wheat
Start	13976	End	14204
GI	none	Score	91
Exons	13976..14071, 13980..14084, 14087..14203, 14097..14204		

Seq. No.	51608	Seq. ID	OJ990531_31.0419.C103
Gene No.	109327	Strand	-
Start	1	End	956
Name	OJ990531_31.0419.C103.o1.np	Method	AAT/NAP
Start	1	End	956
GI	5869816	Score	86
Exons	1..328, 439..657, 838..956		
GI Descrip.	(AJ249395) NADH-ubiquinone oxidoreductase subunit 4 [Globodera pallida]		

Seq. No.	51608	Seq. ID	OJ990531_31.0419.C103
Gene No.	109328	Strand	-
Start	1303	End	2466
Name	OJ990531_31.0419.C103.o1.gs	Method	GENSCAN
Start	1303	End	2466
GI	none	Score	.84
Exons	1303..1359, 1787..1909, 1950..2081, 2419..2466		

Seq. No.	51609	Seq. ID	OJ990531_31.0419.C104
Gene No.	109329	Strand	+
Start	1107	End	1255
Name	OJ990531_31.0419.C104.o1.gp	Method	AAT/GAP
Start	1107	End	1255
GI	286806	Score	253
Exons	1107..1255		
GI Descrip.	5441872/dbj AP000366.1 AP000366 2.0e-21 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)		

Seq. No.	51610	Seq. ID	OJ990531_31.0419.C105
Gene No.	109330	Strand	+
Start	975	End	1995
Name	OJ990531_31.0419.C105.o1.gs	Method	GENSCAN
Start	975	End	1995
GI	none	Score	.48

Exons 975..1115, 1175..1245, 1835..1995

Seq. No.	51611	Seq. ID	OJ990531_31.0419.C106
Gene No.	109331	Strand	+
Start	346	End	1865
Name	OJ990531_31.0419.C106.o1.gs	Method	GENSCAN
Start	346	End	1865
GI	none	Score	.44
Exons	346..361, 1813..1865		

Seq. No.	51612	Seq. ID	OJ990531_31.0419.C107
Gene No.	109332	Strand	+
Start	1	End	3560
Name	OJ990531_31.0419.C107.o2.np	Method	AAT/NAP
Start	1	End	3560
GI	4680186	Score	363
Exons	1..29, 2465..2520, 3360..3560		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51612	Seq. ID	OJ990531_31.0419.C107
Gene No.	109333	Strand	+
Start	4478	End	4531
Name	OJ990531_31.0419.C107.o2.gs	Method	GENSCAN
Start	4478	End	4531
GI	none	Score	.84
Exons	4478..4531		

Seq. No.	51612	Seq. ID	OJ990531_31.0419.C107
Gene No.	109334	Strand	-
Start	1	End	3493
Name	OJ990531_31.0419.C107.o1.np	Method	AAT/NAP
Start	1	End	694
GI	119714	Score	74
Exons	1..296, 598..694		
GI Descrip.	EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN) gi 82169 pir S06733 hydroxyproline-rich glycoprotein precursor - common tobacco gi 19867 emb CAA32090 (X13885) extensin (AA 1-620) [Nicotiana tabacum]		

Seq. No.	51612	Seq. ID	OJ990531_31.0419.C107
Gene No.	109334	Strand	-
Start	1	End	3493
Name	OJ990531_31.0419.C107.o1.gs	Method	GENSCAN
Start	312	End	3315
GI	none	Score	.44
Exons	312..630, 1277..1377, 1388..1482, 1887..1956, 3240..3315		

Seq. No.	51612	Seq. ID	OJ990531_31.0419.C107
Gene No.	109334	Strand	-
Start	1	End	3493
Name	OJ990531_31.0419.C107.o2.gp	Method	AAT/GAP
Start	3112	End	3493
GI	uC-osflcyp033a04b1	Score	663
Exons	3112..3493		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51613	Seq. ID	OJ990531_31.0419.C108
Gene No.	109335	Strand	+
Start	405	End	2367
Name	OJ990531_31.0419.C108.o1.np	Method	AAT/NAP
Start	405	End	2367
GI	4680203	Score	310
Exons	405..459, 1666..2367		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51613	Seq. ID	OJ990531_31.0419.C108
Gene No.	109336	Strand	-
Start	125	End	1325
Name	OJ990531_31.0419.C108.o1.gs	Method	GENSCAN
Start	125	End	1325
GI	none	Score	.5
Exons	125..247, 409..497, 1215..1237, 1297..1325		

Seq. No.	51614	Seq. ID	OJ990621_11.0419.C1
Gene No.	109337	Strand	-
Start	1	End	321
Name	OJ990621_11.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	321
GI	5295950	Score	76
Exons	1..27, 213..321		
GI Descrip.	(AB026295) EST AU066268(S5980) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51614	Seq. ID	OJ990621_11.0419.C1
Gene No.	109338	Strand	-
Start	249	End	435
Name	OJ990621_11.0419.C1.o1.gs	Method	GENSCAN
Start	249	End	435
GI	none	Score	.49
Exons	249..435		

Seq. No.	51615	Seq. ID	OJ990621_11.0419.C3
Gene No.	109339	Strand	+
Start	132	End	434
Name	OJ990621_11.0419.C3.o1.gs	Method	GENSCAN
Start	132	End	434
GI	none	Score	.41
Exons	132..434		

Seq. No.	51616	Seq. ID	OJ990621_11.0419.C4
Gene No.	109340	Strand	-
Start	1	End	692
Name	OJ990621_11.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	692
GI	3702326	Score	120
Exons	1..19, 342..447, 545..692		
GI Descrip.	(AC005397) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51616	Seq. ID	OJ990621_11.0419.C4
Gene No.	109340	Strand	-
Start	1	End	692
Name	OJ990621_11.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	332	End	615

GI	none	Score	118
Exons	332..442, 333..446, 346..447, 348..446, 533..613, 544..615		
Seq. No.	51616	Seq. ID	OJ990621_11.0419.C4
Gene No.	109340	Strand	-
Start	1	End	692
Name	OJ990621_11.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	339	End	609
GI	none	Score	112
Exons	339..446, 343..438, 346..447, 544..609		

Seq. No.	51616	Seq. ID	OJ990621_11.0419.C4
Gene No.	109340	Strand	-
Start	1	End	692
Name	OJ990621_11.0419.C4.o1.gs	Method	GENSCAN
Start	342	End	610
GI	none	Score	.94
Exons	342..447, 545..610		

Seq. No.	51617	Seq. ID	OJ990621_11.0419.C5
Gene No.	109341	Strand	+
Start	107	End	253
Name	OJ990621_11.0419.C5.o1.gs	Method	GENSCAN
Start	107	End	253
GI	none	Score	.44
Exons	107..253		

Seq. No.	51618	Seq. ID	OJ990621_11.0419.C7
Gene No.	109342	Strand	-
Start	170	End	329
Name	OJ990621_11.0419.C7.o1.gs	Method	GENSCAN
Start	170	End	329
GI	none	Score	.84
Exons	170..329		

Seq. No.	51619	Seq. ID	OJ990621_11.0419.C14
Gene No.	109343	Strand	+
Start	25	End	335
Name	OJ990621_11.0419.C14.o1.gp	Method	AAT/GAP
Start	25	End	335
GI	LIB3475-011-P1-K1-B8	Score	583
Exons	25..335		
GI Descrip.	'5295936/dbj AB026295.2 AB026295 1.0e-140 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	51619	Seq. ID	OJ990621_11.0419.C14
Gene No.	109344	Strand	+
Start	463	End	741
Name	OJ990621_11.0419.C14.o2.gp	Method	AAT/GAP
Start	463	End	741
GI	72910_1.R1084	Score	527
Exons	463..741		
GI Descrip.	'5295936/dbj AB026295.2 AB026295 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	51620	Seq. ID	OJ990621_11.0419.C21
Gene No.	109345	Strand	+

Start	133	End	438
Name	OJ990621_11.0419.C21.o1.gs	Method	GENSCAN
Start	133	End	438
GI	none	Score	.4
Exons	133..289, 359..438		

Seq. No.	51621	Seq. ID	OJ990621_11.0419.C23
Gene No.	109346	Strand	+
Start	1	End	226
Name	OJ990621_11.0419.C23.o1.gp	Method	AAT/GAP
Start	1	End	226
GI	81139 1.R1084	Score	395
Exons	1..226		
GI Descrip.	'5295941/dbj BAA81842.1 5.0e-71 (AB026295) ESTs AU075322(C11109),D22430(C11109) correspond to a region of the predicted gene.; Similar to Medicago sativa early nodule-specific protein (ENOD8) gene, complete cds.(L18899) [Oryza sativa]'		

Seq. No.	51621	Seq. ID	OJ990621_11.0419.C23
Gene No.	109347	Strand	-
Start	621	End	1216
Name	OJ990621_11.0419.C23.o2.gp	Method	AAT/GAP
Start	540	End	877
GI	267 8.R1084	Score	559
Exons	540..877		
GI Descrip.	'70748/pir HSUR3P 3.0e-10 histone H3, embryonic - sea urchin (Strongylocentrotus purpuratus)'		

Seq. No.	51621	Seq. ID	OJ990621_11.0419.C23
Gene No.	109347	Strand	-
Start	621	End	1216
Name	OJ990621_11.0419.C23.o1.gs	Method	GENSCAN
Start	621	End	1128
GI	none	Score	.85
Exons	621..643, 732..1128		

Seq. No.	51621	Seq. ID	OJ990621_11.0419.C23
Gene No.	109347	Strand	-
Start	621	End	1216
Name	OJ990621_11.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	703	End	1128
GI	none	Score	114
Exons	703..897, 748..1128, 755..1120		

Seq. No.	51621	Seq. ID	OJ990621_11.0419.C23
Gene No.	109347	Strand	-
Start	621	End	1216
Name	OJ990621_11.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	707	End	1154
GI	none	Score	239
Exons	707..808, 712..1011, 748..1128, 752..1120, 1098..1154		

Seq. No.	51621	Seq. ID	OJ990621_11.0419.C23
Gene No.	109347	Strand	-
Start	621	End	1216
Name	OJ990621_11.0419.C23.o1.tm	Method	TBLASTX:Maize

Start	715	End	1145
GI	none	Score	230
Exons	715..1011, 748..1128, 752..1120, 1098..1145		

Seq. No.	51621	Seq. ID	OJ990621_11.0419.C23
Gene No.	109347	Strand	-
Start	621	End	1216
Name	OJ990621_11.0419.C23.o3.gp	Method	AAT/GAP
Start	720	End	1216
GI	267_5.R1084	Score	882
Exons	720..1216		
GI Descrip.	'122087/sp P02300 H3_PEA 8.0e-61 HISTONE H3 >gi_81849_pir_S04520 histone H3 (clone pH3c-1) - alfalfa >gi_82609_pir_A26014 histone H3 - wheat >gi_19607_emb_CAA31964_ (X13673) histone H3 (AA 1-136) [Medicago sativa] >gi_19609_emb_CAA31965_ (X13674) histone H3 (AA 1-136) [Medicago sativa] >gi_21797_emb_CAA25451_ (X00937) H3 histone [Triticum aestivum] >gi_488565 (U09459) histone H3.1 [M']		

Seq. No.	51621	Seq. ID	OJ990621_11.0419.C23
Gene No.	109347	Strand	-
Start	621	End	1216
Name	OJ990621_11.0419.C23.o1.np	Method	AAT/NAP
Start	721	End	1128
GI	122085	Score	673
Exons	721..1128		
GI Descrip.	HISTONE H3 gi 81641 pir S06250 histone H3 - Arabidopsis thaliana gi 82482 pir S04099 histone H3 (variant H3R-21) - rice gi 1362194 pir S57626 histone H3 - maize gi 20251 emb CAA31969 (X13678) histone H3 (AA 1-136) [Oryza sativa] gi 20253 emb CAA31970 (X13680) histone H3 (AA 1-136) [Oryza sativa] gi 168493 (M36658) histone H3 (H3C3) [Zea mays] gi 168495 (M13378) h		

Seq. No.	51621	Seq. ID	OJ990621_11.0419.C23
Gene No.	109347	Strand	-
Start	621	End	1216
Name	OJ990621_11.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	748	End	1128
GI	none	Score	388
Exons	748..1128, 752..1120		

Seq. No.	51622	Seq. ID	OJ990621_11.0419.C26
Gene No.	109348	Strand	-
Start	195	End	718
Name	OJ990621_11.0419.C26.o1.np	Method	AAT/NAP
Start	195	End	718
GI	6069646	Score	207
Exons	195..718		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi 6907112 dbj BAA90639.1 (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9013 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	51622	Seq. ID	OJ990621_11.0419.C26
Gene No.	109348	Strand	-

Start 195
 Name OJ990621_11.0419.C26.o1.tm
 Start 219
 GI none
 Exons 219..347, 457..717, 557..715

End 718
 Method TBLASTX:Maize
 End 717
 Score 113

Seq. No. 51623
 Gene No. 109349
 Start 1
 Name OJ990621_11.0419.C28.o1.np
 Start 1
 GI 872116
 Exons 1..231, 362..450
 GI Descrip. (X79770) sti (stress inducible protein) [Glycine max]

Seq. ID OJ990621_11.0419.C28
 Strand -
 End 450
 Method AAT/NAP
 End 450
 Score 218

Seq. No. 51623
 Gene No. 109349
 Start 1
 Name OJ990621_11.0419.C28.o1.ts
 Start 1
 GI none
 Exons 1..228, 13..222, 45..233, 344..448, 374..448

Seq. ID OJ990621_11.0419.C28
 Strand -
 End 450
 Method TBLASTX:Soybean
 End 448
 Score 108

Seq. No. 51623
 Gene No. 109349
 Start 1
 Name OJ990621_11.0419.C28.o1.tc
 Start 1
 GI none
 Exons 1..228, 46..225

Seq. ID OJ990621_11.0419.C28
 Strand -
 End 450
 Method TBLASTX:Cress
 End 228
 Score 87

Seq. No. 51623
 Gene No. 109349
 Start 1
 Name OJ990621_11.0419.C28.o1.tm
 Start 1
 GI none
 Exons 1..228, 6..206, 345..449, 359..448

Seq. ID OJ990621_11.0419.C28
 Strand -
 End 450
 Method TBLASTX:Maize
 End 449
 Score 84

Seq. No. 51623
 Gene No. 109349
 Start 1
 Name OJ990621_11.0419.C28.o1.gs
 Start 8
 GI none
 Exons 8..231, 362..447

Seq. ID OJ990621_11.0419.C28
 Strand -
 End 450
 Method GENSCAN
 End 447
 Score .97

Seq. No. 51624
 Gene No. 109350
 Start 208
 Name OJ990621_11.0419.C29.o1.gs
 Start 208
 GI none
 Exons 208..322, 555..687

Seq. ID OJ990621_11.0419.C29
 Strand +
 End 687
 Method GENSCAN
 End 687
 Score .69

Seq. No. 51624
 Gene No. 109351

Seq. ID OJ990621_11.0419.C29
 Strand -

Start	1365	End	1965
Name	OJ990621_11.0419.C29.o2.gs	Method	GENSCAN
Start	1365	End	1965
GI	none	Score	.92
Exons	1365..1492, 1943..1965		

Seq. No.	51625	Seq. ID	OJ990621_11.0419.C32
Gene No.	109352	Strand	-
Start	1021	End	2261
Name	OJ990621_11.0419.C32.o1.gp	Method	AAT/GAP
Start	492	End	2261
GI	663_1.R1084	Score	1456
Exons	492..1179, 2010..2049, 2185..2261		
GI Descrip.	'2833377/sp Q40739 UGS2_ORYSA 0.0e+00 SOLUBLE GLYCOGEN (STARCH) SYNTHASE PRECURSOR (SSS) >gi_542161_pir_JQ2322 ADPglucose--starch glucosyltransferase (EC 2.4.1.21) precursor - rice >gi_450485_dbj_BAA03739_ (D16202) soluble starch synthase precursor [Oryza sativa]'		

Seq. No.	51625	Seq. ID	OJ990621_11.0419.C32
Gene No.	109352	Strand	-
Start	1021	End	2261
Name	OJ990621_11.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	916	End	2240
GI	none	Score	235
Exons	916..945, 1009..1185, 1022..1177, 2010..2048, 2182..2238, 2184..2240		

Seq. No.	51625	Seq. ID	OJ990621_11.0419.C32
Gene No.	109352	Strand	-
Start	1021	End	2261
Name	OJ990621_11.0419.C32.o1.gs	Method	GENSCAN
Start	1021	End	2018
GI	none	Score	.89
Exons	1021..1179, 2010..2018		

Seq. No.	51625	Seq. ID	OJ990621_11.0419.C32
Gene No.	109352	Strand	-
Start	1021	End	2261
Name	OJ990621_11.0419.C32.o1.np	Method	AAT/NAP
Start	1024	End	2261
GI	7188796	Score	324
Exons	1024..1179, 2010..2049, 2185..2261		
GI Descrip.	(AF234163) starch synthase I [Hordeum vulgare]		

Seq. No.	51626	Seq. ID	OJ990621_11.0419.C33
Gene No.	109353	Strand	-
Start	1	End	1191
Name	OJ990621_11.0419.C33.o1.gp	Method	AAT/GAP
Start	1	End	1191
GI	663_1.R1084	Score	1055
Exons	1..125, 204..266, 377..468, 565..646, 837..1010, 1107..1191		
GI Descrip.	'2833377/sp Q40739 UGS2_ORYSA 0.0e+00 SOLUBLE GLYCOGEN (STARCH) SYNTHASE PRECURSOR (SSS) >gi_542161_pir_JQ2322 ADPglucose--starch glucosyltransferase (EC 2.4.1.21) precursor - rice >gi_450485_dbj_BAA03739_ (D16202) soluble starch synthase precursor [Oryza sativa]'		

Seq. No.	51626	Seq. ID	OJ990621_11.0419.C33
Gene No.	109353	Strand	-
Start	1	End	1191
Name	OJ990621_11.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	1191
GI	5295947	Score	850
Exons	1..125, 204..266, 377..468, 565..646, 837..1010, 1107..1191		
GI Descrip.	(AB026295) ESTs AU075322(C11109),D22430(C11109) correspond to a region of the predicted gene.; Rice gene for soluble starch synthase (SSS1), complete cds (exon1-15).(D38221) [Oryza sativa]		

Seq. No.	51626	Seq. ID	OJ990621_11.0419.C33
Gene No.	109353	Strand	-
Start	1	End	1191
Name	OJ990621_11.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	33	End	926
GI	none	Score	118
Exons	33..125, 36..125, 37..129, 195..266, 205..267, 206..268, 367..468, 371..469, 561..647, 563..649, 837..920, 837..926		

Seq. No.	51626	Seq. ID	OJ990621_11.0419.C33
Gene No.	109353	Strand	-
Start	1	End	1191
Name	OJ990621_11.0419.C33.o1.gs	Method	GENSCAN
Start	36	End	1010
GI	none	Score	.81
Exons	36..125, 377..468, 616..646, 837..1010		

Seq. No.	51627	Seq. ID	OJ990621_11.0419.C36
Gene No.	109354	Strand	+
Start	363	End	478
Name	OJ990621_11.0419.C36.o1.gs	Method	GENSCAN
Start	363	End	478
GI	none	Score	.74
Exons	363..478		

Seq. No.	51628	Seq. ID	OJ990621_11.0419.C39
Gene No.	109355	Strand	-
Start	584	End	634
Name	OJ990621_11.0419.C39.o1.gs	Method	GENSCAN
Start	584	End	634
GI	none	Score	.73
Exons	584..634		

Seq. No.	51629	Seq. ID	OJ990921_17.0419.C3
Gene No.	109356	Strand	+
Start	1080	End	1436
Name	OJ990921_17.0419.C3.o1.gs	Method	GENSCAN
Start	1080	End	1436
GI	none	Score	.85
Exons	1080..1436		

Seq. No.	51630	Seq. ID	OJ990921_17.0419.C5
Gene No.	109357	Strand	-
Start	253	End	3693
Name	OJ990921_17.0419.C5.o1.gp	Method	AAT/GAP

Start	253	End	3693
GI	7430_1.R1084	Score	2941
Exons	253..799, 1008..1379, 1452..1939, 3584..3693		
GI Descrip.	'399015/sp P31691 ADT_ORYSA 1.0e-145 ADP,ATP CARRIER PROTEIN PRECURSOR (ADP/ATP TRANSLOCASE) (ADENINE NUCLEOTIDE TRANSLOCATOR) (ANT) >gi_218145_dbj_BAA02161_ (D12637) ATP/ADP translocator [Oryza sativa]'		

Seq. No.	51630	Seq. ID	OJ990921_17.0419.C5
Gene No.	109357	Strand	-
Start	253	End	3693
Name	OJ990921_17.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	499	End	1938
GI	none	Score	54
Exons	499..546, 509..547, 522..692, 523..693, 613..693, 614..697, 681..773, 694..843, 694..735, 725..802, 1003..1194, 1004..1204, 1007..1381, 1008..1379, 1307..1381, 1433..1600, 1434..1754, 1443..1937, 1456..1938		

Seq. No.	51630	Seq. ID	OJ990921_17.0419.C5
Gene No.	109357	Strand	-
Start	253	End	3693
Name	OJ990921_17.0419.C5.o1.gs	Method	GENSCAN
Start	504	End	3526
GI	none	Score	.72
Exons	504..782, 1008..1379, 1452..1939, 3420..3526		

Seq. No.	51630	Seq. ID	OJ990921_17.0419.C5
Gene No.	109357	Strand	-
Start	253	End	3693
Name	OJ990921_17.0419.C5.o1.np	Method	AAT/NAP
Start	507	End	1922
GI	7441721	Score	1401
Exons	507..799, 1008..1379, 1452..1922		
GI Descrip.	ADP,ATP carrier protein F2009.60 - Arabidopsis thaliana gi 2842480 emb CAA16877.1 (AL021749) ADP, ATP carrier-like protein [Arabidopsis thaliana] gi 7269693 emb CAB79641.1 (AL161572) ADP, ATP carrier-like protein [Arabidopsis thaliana]		

Seq. No.	51630	Seq. ID	OJ990921_17.0419.C5
Gene No.	109357	Strand	-
Start	253	End	3693
Name	OJ990921_17.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	522	End	1743
GI	none	Score	175
Exons	522..692, 523..693, 696..773, 696..776, 698..802, 725..805, 1002..1178, 1005..1178, 1042..1185, 1187..1387, 1206..1382, 1307..1423, 1449..1742, 1450..1743		

Seq. No.	51630	Seq. ID	OJ990921_17.0419.C5
Gene No.	109357	Strand	-
Start	253	End	3693
Name	OJ990921_17.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	522	End	1925
GI	none	Score	159
Exons	522..692, 523..693, 696..773, 725..802, 1002..1256, 1002..1379, 1042..1383, 1299..1388, 1307..1387, 1436..1600, 1437..1739,		

1443..1805, 1456..1758, 1488..1556, 1848..1925

Seq. No.	51630	Seq. ID	OJ990921_17.0419.C5
Gene No.	109357	Strand	-
Start	253	End	3693
Name	OJ990921_17.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	522	End	1496
GI	none	Score	150
Exons	522..692, 523..693, 614..697, 657..800, 681..773, 701..802, 725..802, 1006..1179, 1007..1384, 1007..1201, 1008..1379, 1307..1408, 1434..1496, 1443..1493		

Seq. No.	51630	Seq. ID	OJ990921_17.0419.C5
Gene No.	109357	Strand	-
Start	253	End	3693
Name	OJ990921_17.0419.C5.o2.tw	Method	TBLASTX:Wheat
Start	1515	End	1740
GI	none	Score	140
Exons	1515..1715, 1515..1712, 1516..1740, 1516..1713		

Seq. No.	51631	Seq. ID	OJ990921_17.0419.C6
Gene No.	109358	Strand	+
Start	102	End	1539
Name	OJ990921_17.0419.C6.o1.gs	Method	GENSCAN
Start	102	End	1539
GI	none	Score	.6
Exons	102..192, 1020..1175, 1211..1354, 1387..1539		

Seq. No.	51632	Seq. ID	OJ990921_17.0419.C10
Gene No.	109359	Strand	+
Start	432	End	593
Name	OJ990921_17.0419.C10.o1.gs	Method	GENSCAN
Start	432	End	593
GI	none	Score	.8
Exons	432..593		

Seq. No.	51633	Seq. ID	OJ990921_17.0419.C16
Gene No.	109360	Strand	-
Start	1299	End	1378
Name	OJ990921_17.0419.C16.o1.gs	Method	GENSCAN
Start	1299	End	1378
GI	none	Score	.54
Exons	1299..1378		

Seq. No.	51634	Seq. ID	OJ990921_17.0419.C17
Gene No.	109361	Strand	+
Start	1679	End	1801
Name	OJ990921_17.0419.C17.o1.gs	Method	GENSCAN
Start	1679	End	1801
GI	none	Score	.77
Exons	1679..1801		

Seq. No.	51635	Seq. ID	OJ990921_17.0419.C18
Gene No.	109362	Strand	+
Start	1	End	4189
Name	OJ990921_17.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	4045

GI 7486758 Score 1533
 Exons 1..39, 416..959, 1040..1253, 1558..1719, 2046..2414, 2539..3123, 3480..3599, 3696..3893, 3958..4045
 GI Descrip. hypothetical protein F9F13.50 - Arabidopsis thaliana
 gi|5262163|emb|CAB45806.1| (AL080253) putative protein
 [Arabidopsis thaliana] gi|7268836|emb|CAB79040.1| (AL161553)
 putative protein [Arabidopsis thaliana]

Seq. No. 51635 Seq. ID OJ990921_17.0419.C18
 Gene No. 109362 Strand +
 Start 1 End 4189
 Name OJ990921_17.0419.C18.o1.gs Method GENSCAN
 Start 274 End 4189
 GI none Score .68
 Exons 274..351, 437..955, 1558..1719, 2046..2413, 2475..3403, 3496..3599, 3696..3893, 3992..4189

Seq. No. 51635 Seq. ID OJ990921_17.0419.C18
 Gene No. 109362 Strand +
 Start 1 End 4189
 Name OJ990921_17.0419.C18.o1.tc Method TBLASTX:Cress
 Start 283 End 547
 GI none Score 82
 Exons 283..351, 285..359, 428..547, 434..535, 436..537

Seq. No. 51635 Seq. ID OJ990921_17.0419.C18
 Gene No. 109362 Strand +
 Start 1 End 4189
 Name OJ990921_17.0419.C18.o2.tm Method TBLASTX:Maize
 Start 889 End 2117
 GI none Score 88
 Exons 889..954, 890..955, 1022..1075, 1035..1067, 1140..1250, 1142..1252, 1533..1679, 1541..1705, 1555..1725, 1558..1719, 2046..2117

Seq. No. 51635 Seq. ID OJ990921_17.0419.C18
 Gene No. 109362 Strand +
 Start 1 End 4189
 Name OJ990921_17.0419.C18.o1.tw Method TBLASTX:Wheat
 Start 2031 End 2305
 GI none Score 225
 Exons 2031..2300, 2094..2243, 2108..2305

Seq. No. 51635 Seq. ID OJ990921_17.0419.C18
 Gene No. 109362 Strand +
 Start 1 End 4189
 Name OJ990921_17.0419.C18.o1.tm Method TBLASTX:Maize
 Start 2120 End 2709
 GI none Score 410
 Exons 2120..2413, 2121..2414, 2533..2631, 2537..2647, 2538..2633, 2634..2708, 2634..2708, 2635..2709

Seq. No. 51635 Seq. ID OJ990921_17.0419.C18
 Gene No. 109362 Strand +
 Start 1 End 4189
 Name OJ990921_17.0419.C18.o1.ts Method TBLASTX:Soybean
 Start 2165 End 2414

GI	none	Score	189
Exons	2165..2290, 2166..2291, 2364..2414, 2366..2413		
Seq. No.	51635	Seq. ID	OJ990921_17.0419.C18
Gene No.	109362	Strand	+
Start	1	End	4189
Name	OJ990921_17.0419.C18.o1.gp	Method	AAT/GAP
Start	3310	End	4032
GI	LIB3434-041-P1-K1-C11	Score	781
Exons	3310..3403, 3496..3599, 3696..3893, 3992..4032		
GI Descrip.	'4926825/gb AAD32935.1 AC004135_10 2.0e-35 (AC004135) T17H7.10 [Arabidopsis thaliana]'		

Seq. No.	51635	Seq. ID	OJ990921_17.0419.C18
Gene No.	109362	Strand	+
Start	1	End	4189
Name	OJ990921_17.0419.C18.o3.tm	Method	TBLASTX:Maize
Start	3483	End	3878
GI	none	Score	99
Exons	3483..3602, 3491..3589, 3695..3871, 3696..3878		

Seq. No.	51636	Seq. ID	OJ990921_17.0419.C19
Gene No.	109363	Strand	+
Start	3395	End	7278
Name	OJ990921_17.0419.C19.o2.np	Method	AAT/NAP
Start	3395	End	7278
GI	7339707	Score	66
Exons	3395..3455, 5846..5939, 5970..5997, 6662..6913, 7227..7278		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	51636	Seq. ID	OJ990921_17.0419.C19
Gene No.	109363	Strand	+
Start	3395	End	7278
Name	OJ990921_17.0419.C19.o2.gs	Method	GENSCAN
Start	5593	End	7115
GI	none	Score	.81
Exons	5593..5716, 6075..6241, 6514..6695, 6768..7115		

Seq. No.	51636	Seq. ID	OJ990921_17.0419.C19
Gene No.	109364	Strand	-
Start	744	End	1952
Name	OJ990921_17.0419.C19.o1.np	Method	AAT/NAP
Start	744	End	1952
GI	6997177	Score	818
Exons	744..1952		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51636	Seq. ID	OJ990921_17.0419.C19
Gene No.	109364	Strand	-
Start	744	End	1952
Name	OJ990921_17.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	912	End	1184
GI	none	Score	40
Exons	912..950, 915..950, 957..1019, 1017..1184, 1020..1181		

Seq. No.	51636	Seq. ID	OJ990921_17.0419.C19
Gene No.	109364	Strand	-

Start	744	End	1952
Name	OJ990921_17.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	1113	End	1523
GI	none	Score	121
Exons	1113..1280, 1114..1284, 1276..1350, 1277..1333, 1339..1443, 1357..1521, 1358..1510, 1359..1523		

Seq. No.	51636	Seq. ID	OJ990921_17.0419.C19
Gene No.	109364	Strand	-
Start	744	End	1952
Name	OJ990921_17.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	1188	End	1829
GI	none	Score	60
Exons	1188..1280, 1277..1336, 1277..1339, 1388..1696, 1411..1716, 1713..1829		

Seq. No.	51636	Seq. ID	OJ990921_17.0419.C19
Gene No.	109365	Strand	-
Start	3633	End	3918
Name	OJ990921_17.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	3633	End	3918
GI	none	Score	81
Exons	3633..3719, 3633..3728, 3718..3831, 3722..3826, 3871..3894, 3883..3912, 3883..3918		

Seq. No.	51637	Seq. ID	OJ990921_17.0419.C20
Gene No.	109366	Strand	+
Start	61	End	3574
Name	OJ990921_17.0419.C20.o1.gs	Method	GENSCAN
Start	61	End	3574
GI	none	Score	.81
Exons	61..118, 2553..2679, 3376..3574		

Seq. No.	51637	Seq. ID	OJ990921_17.0419.C20
Gene No.	109367	Strand	-
Start	1	End	4062
Name	OJ990921_17.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	4062
GI	7340881	Score	254
Exons	1..70, 1871..2048, 3437..3631, 3727..4062		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51637	Seq. ID	OJ990921_17.0419.C20
Gene No.	109368	Strand	-
Start	4675	End	4781
Name	OJ990921_17.0419.C20.o1.gp	Method	AAT/GAP
Start	4675	End	4781
GI	uC-osflcyp088b12b1	Score	144
Exons	4675..4781		
GI Descrip.	'5257255/dbj AP000364.1 AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	51637	Seq. ID	OJ990921_17.0419.C20
Gene No.	109369	Strand	-
Start	5637	End	6162
Name	OJ990921_17.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	5623	End	5957

GI	none	Score	105
Exons	5623..5742, 5751..5825, 5841..5957		
Seq. No.	51637	Seq. ID	OJ990921_17.0419.C20
Gene No.	109369	Strand	-
Start	5637	End	6162
Name	OJ990921_17.0419.C20.o2.gs	Method	GENSCAN
Start	5637	End	6122
GI	none	Score	.47
Exons	5637..6122		
Seq. No.	51637	Seq. ID	OJ990921_17.0419.C20
Gene No.	109369	Strand	-
Start	5637	End	6162
Name	OJ990921_17.0419.C20.o2.np	Method	AAT/NAP
Start	5653	End	6162
GI	7267361	Score	210
Exons	5653..6162		
GI Descrip.	(AL161506) putative athila transposon protein [Arabidopsis thaliana]		
Seq. No.	51638	Seq. ID	OJ990921_17.0419.C21
Gene No.	109370	Strand	+
Start	447	End	1721
Name	OJ990921_17.0419.C21.o1.gs	Method	GENSCAN
Start	447	End	1721
GI	none	Score	.46
Exons	447..713, 1596..1721		
Seq. No.	51639	Seq. ID	OJ990921_17.0419.C22
Gene No.	109371	Strand	+
Start	262	End	1446
Name	OJ990921_17.0419.C22.o1.gs	Method	GENSCAN
Start	262	End	1446
GI	none	Score	.56
Exons	262..732, 845..1180, 1273..1446		
Seq. No.	51639	Seq. ID	OJ990921_17.0419.C22
Gene No.	109372	Strand	-
Start	1	End	1189
Name	OJ990921_17.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1189
GI	6678708	Score	148
Exons	1..24, 260..614, 799..1079, 1154..1189		
GI Descrip.	loricrin gi 126390 sp P18165 LORI_MOUSE LORICRIN gi 110649 pir A35628 loricrin - mouse gi 198871 (M34398) loricrin [Mus musculus] gi 520480 (U09189) loricrin [Mus musculus]		
Seq. No.	51639	Seq. ID	OJ990921_17.0419.C22
Gene No.	109372	Strand	-
Start	1	End	1189
Name	OJ990921_17.0419.C22.o1.gp	Method	AAT/GAP
Start	822	End	1105
GI	none	Score	375
Exons	822..864, 922..1105		

Seq. No.	51639	Seq. ID	OJ990921_17.0419.C22
Gene No.	109373	Strand	-
Start	1731	End	2329
Name	OJ990921_17.0419.C22.o2.gs	Method	GENSCAN
Start	1731	End	2329
GI	none	Score	.43
Exons	1731..1806, 2250..2329		

Seq. No.	51640	Seq. ID	OJ990921_17.0419.C23
Gene No.	109374	Strand	+
Start	1	End	2803
Name	OJ990921_17.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	2803
GI	7485155	Score	47
Exons	1..99, 1445..1593, 2709..2803		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi 2244963 emb CAB10384.1 (Z97340) hypothetical protein [Arabidopsis thaliana] gi 7268354 emb CAB78647.1 (AL161543) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	51641	Seq. ID	OJ990921_17.0419.C24
Gene No.	109375	Strand	+
Start	1	End	1318
Name	OJ990921_17.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	1318
GI	4417306	Score	179
Exons	1..70, 860..1318		
GI Descrip.	(AC006446) putative Athila retroelement ORF1 protein [Arabidopsis thaliana]		

Seq. No.	51642	Seq. ID	OJ990921_17.0419.C25
Gene No.	109376	Strand	+
Start	302	End	398
Name	OJ990921_17.0419.C25.o1.gp	Method	AAT/GAP
Start	302	End	398
GI	10672_1.R1084	Score	173
Exons	302..398		
GI Descrip.	'82264/pir S20015 1.0e-132 ubiquinol--cytochrome-c reductase (EC 1.10.2.2) cytochrome c1 precursor (clone pC(1)8I) - potato (fragment) >gi_498789_emb_CAA56109_ (X79597) cytochrome c1 [Solanum tuberosum]'		

Seq. No.	51642	Seq. ID	OJ990921_17.0419.C25
Gene No.	109377	Strand	-
Start	214	End	1312
Name	OJ990921_17.0419.C25.o1.gs	Method	GENSCAN
Start	214	End	1312
GI	none	Score	.65
Exons	214..330, 385..492, 1253..1312		

Seq. No.	51643	Seq. ID	OJ990921_17.0419.C28
Gene No.	109378	Strand	-
Start	801	End	1397
Name	OJ990921_17.0419.C28.o1.gs	Method	GENSCAN
Start	801	End	1397
GI	none	Score	.9
Exons	801..869, 1277..1296, 1319..1397		

Seq. No.	51643	Seq. ID	OJ990921_17.0419.C28
Gene No.	109379	Strand	-
Start	1531	End	1786
Name	OJ990921_17.0419.C28.o1.np	Method	AAT/NAP
Start	1531	End	1786
GI	7228450	Score	172
Exons	1531..1644, 1730..1786		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	51644	Seq. ID	OJ990921_17.0419.C29
Gene No.	109380	Strand	-
Start	1	End	1633
Name	OJ990921_17.0419.C29.o1.np	Method	AAT/NAP
Start	1	End	548
GI	6539570	Score	156
Exons	1..31, 109..175, 355..548		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	51644	Seq. ID	OJ990921_17.0419.C29
Gene No.	109380	Strand	-
Start	1	End	1633
Name	OJ990921_17.0419.C29.o1.gs	Method	GENSCAN
Start	359	End	1161
GI	none	Score	.62
Exons	359..515, 949..1161		

Seq. No.	51644	Seq. ID	OJ990921_17.0419.C29
Gene No.	109380	Strand	-
Start	1	End	1633
Name	OJ990921_17.0419.C29.o2.np	Method	AAT/NAP
Start	685	End	1633
GI	6630699	Score	76
Exons	685..763, 1611..1633		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi 6721536 dbj BAA89566.1 (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	51645	Seq. ID	OJ990921_17.0419.C34
Gene No.	109381	Strand	-
Start	1	End	1000
Name	OJ990921_17.0419.C34.o1.np	Method	AAT/NAP
Start	1	End	1000
GI	4680203	Score	510
Exons	1..1000		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	51645	Seq. ID	OJ990921_17.0419.C34
Gene No.	109381	Strand	-
Start	1	End	1000
Name	OJ990921_17.0419.C34.o1.tw	Method	TBLASTX:Wheat
Start	9	End	511
GI	none	Score	47
Exons	9..65, 28..66, 110..511, 111..287, 218..487		

Seq. No.	51645	Seq. ID	OJ990921_17.0419.C34
Gene No.	109381	Strand	-

Start 1
 Name OJ990921_17.0419.C34.o1.ts
 Start 84
 GI none
 Exons 84..386, 108..260, 110..388

End 1000
 Method TBLASTX:Soybean
 End 388
 Score 151

Seq. No. 51645
 Gene No. 109381
 Start 1
 Name OJ990921_17.0419.C34.o1.gs
 Start 86
 GI none
 Exons 86..273, 436..865

Seq. ID OJ990921_17.0419.C34
 Strand -
 End 1000
 Method GENSCAN
 End 865
 Score .51

Seq. No. 51646
 Gene No. 109382
 Start 345
 Name OJ990921_17.0419.C35.o1.gs
 Start 345
 GI none
 Exons 345..501, 556..603

Seq. ID OJ990921_17.0419.C35
 Strand +
 End 603
 Method GENSCAN
 End 603
 Score .67

Seq. No. 51647
 Gene No. 109383
 Start 582
 Name OJ990921_17.0419.C36.o1.gs
 Start 582
 GI none
 Exons 582..662, 1853..2014

Seq. ID OJ990921_17.0419.C36
 Strand +
 End 2014
 Method GENSCAN
 End 2014
 Score .67

Seq. No. 51648
 Gene No. 109384
 Start 1
 Name OJ990921_17.0419.C37.o1.tm
 Start 1
 GI none
 Exons 1..54, 18..53, 54..164, 55..165

Seq. ID OJ990921_17.0419.C37
 Strand -
 End 165
 Method TBLASTX:Maize
 End 165
 Score 73

Seq. No. 51649
 Gene No. 109385
 Start 428
 Name OJ990921_17.0419.C41.o1.gs
 Start 428
 GI none
 Exons 428..526, 645..696

Seq. ID OJ990921_17.0419.C41
 Strand -
 End 696
 Method GENSCAN
 End 696
 Score .75

Seq. No. 51650
 Gene No. 109386
 Start 1087
 Name OJ990721_05.0421.C5.o1.gs
 Start 1087
 GI none
 Exons 1087..1237, 1699..1857, 2409..2573, 2648..2728, 2803..3048, 4140..4448

Seq. ID OJ990721_05.0421.C5
 Strand -
 End 4448
 Method GENSCAN
 End 4448
 Score .52

Seq. No. 51651
 Gene No. 109387

Seq. ID OJ990721_05.0421.C10
 Strand +

Start	497	End	841
Name	OJ990721_05.0421.C10.o1.gs	Method	GENSCAN
Start	497	End	841
GI	none	Score	.75
Exons	497..841		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109388	Strand	-
Start	1	End	3245
Name	OJ990721_05.0421.C16.o1.np	Method	AAT/NAP
Start	1	End	3245
GI	4680179	Score	5271
Exons	1..3245		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109388	Strand	-
Start	1	End	3245
Name	OJ990721_05.0421.C16.o1.gs	Method	GENSCAN
Start	28	End	578
GI	none	Score	.77
Exons	28..578		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109388	Strand	-
Start	1	End	3245
Name	OJ990721_05.0421.C16.o2.gs	Method	GENSCAN
Start	678	End	3245
GI	none	Score	.67
Exons	678..1246, 1356..1871, 2117..2308, 2417..2603, 2847..3245		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o1.tw	Method	TBLASTX:Wheat
Start	195	End	704
GI	none	Score	221
Exons	195..704, 279..626, 397..672		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o1.tm	Method	TBLASTX:Maize
Start	274	End	632
GI	none	Score	149
Exons	274..471, 279..632, 288..578, 397..630		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o2.ts	Method	TBLASTX:Soybean
Start	453	End	677
GI	none	Score	184
Exons	453..677		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-

Start	3497	End	6366
Name	OJ990721_05.0421.C16.o2.tm	Method	TBLASTX:Maize
Start	681	End	1169
GI	none	Score	43
Exons	681..1004, 712..762, 714..917, 787..918, 990..1169		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o3.tw	Method	TBLASTX:Wheat
Start	705	End	1007
GI	none	Score	236
Exons	705..1007, 706..969, 908..997		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o1.ts	Method	TBLASTX:Soybean
Start	720	End	1115
GI	none	Score	162
Exons	720..1079, 721..963, 1035..1079, 1071..1115, 1083..1115		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o2.tw	Method	TBLASTX:Wheat
Start	1056	End	1521
GI	none	Score	64
Exons	1056..1193, 1099..1194, 1166..1468, 1182..1433, 1477..1521		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o3.ts	Method	TBLASTX:Soybean
Start	1187	End	1480
GI	none	Score	63
Exons	1187..1480, 1188..1379		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o3.tm	Method	TBLASTX:Maize
Start	1236	End	1509
GI	none	Score	149
Exons	1236..1427, 1238..1468, 1477..1509		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o5.tw	Method	TBLASTX:Wheat
Start	1684	End	2100
GI	none	Score	105
Exons	1684..1866, 1685..1840, 1891..2100, 1952..2083		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366

Name	OJ990721_05.0421.C16.o4.tm	Method	TBLASTX:Maize
Start	2445	End	2738
GI	none	Score	113
Exons	2445..2738, 2454..2738, 2551..2721		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o4.tw	Method	TBLASTX:Wheat
Start	2619	End	2995
GI	none	Score	105
Exons	2619..2948, 2619..2978, 2879..2995		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o3.gs	Method	GENSCAN
Start	3497	End	6366
GI	none	Score	.73
Exons	3497..4462, 6253..6366		

Seq. No.	51652	Seq. ID	OJ990721_05.0421.C16
Gene No.	109389	Strand	-
Start	3497	End	6366
Name	OJ990721_05.0421.C16.o2.np	Method	AAT/NAP
Start	3500	End	4396
GI	5042448	Score	1339
Exons	3500..3794, 3834..4396		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	51653	Seq. ID	OJ990721_05.0421.C17
Gene No.	109390	Strand	+
Start	265	End	1873
Name	OJ990721_05.0421.C17.o1.gs	Method	GENSCAN
Start	265	End	1873
GI	none	Score	.76
Exons	265..666, 720..965, 1221..1873		

Seq. No.	51654	Seq. ID	OJ990721_05.0421.C18
Gene No.	109391	Strand	+
Start	1159	End	3864
Name	OJ990721_05.0421.C18.o1.gs	Method	GENSCAN
Start	1159	End	3864
GI	none	Score	.76
Exons	1159..1315, 1517..1613, 2706..2820, 3185..3424, 3748..3864		

Seq. No.	51654	Seq. ID	OJ990721_05.0421.C18
Gene No.	109392	Strand	-
Start	3206	End	5076
Name	OJ990721_05.0421.C18.o1.np	Method	AAT/NAP
Start	3206	End	5076
GI	5852180	Score	336
Exons	3206..3577, 4579..4664, 5054..5076		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51655	Seq. ID	OJ990621_09.0420.C1
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Gene No.	109393	Strand	+
Start	107	End	886
Name	OJ990621_09.0420.C1.o1.gp	Method	AAT/GAP
Start	107	End	547
GI	2428308	Score	578
Exons	107..547		
GI Descrip.	4521194/dbj AB013613.1 AB013613 3.0e-14 Oryza sativa DNA, centromere sequence RCB11		

Seq. No.	51655	Seq. ID	OJ990621_09.0420.C1
Gene No.	109393	Strand	+
Start	107	End	886
Name	OJ990621_09.0420.C1.o1.np	Method	AAT/NAP
Start	158	End	886
GI	6907087	Score	502
Exons	158..534, 743..886		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51655	Seq. ID	OJ990621_09.0420.C1
Gene No.	109393	Strand	+
Start	107	End	886
Name	OJ990621_09.0420.C1.o1.gs	Method	GENSCAN
Start	343	End	878
GI	none	Score	.43
Exons	343..878		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109394	Strand	+
Start	305	End	6556
Name	OJ990621_09.0420.C2.o1.gs	Method	GENSCAN
Start	305	End	3185
GI	none	Score	.74
Exons	305..355, 1450..1796, 1827..2529, 3081..3185		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109394	Strand	+
Start	305	End	6556
Name	OJ990621_09.0420.C2.o1.np	Method	AAT/NAP
Start	1266	End	3182
GI	6907087	Score	901
Exons	1266..1790, 1967..2529, 3081..3182		
GI Descrip.	(AP001129) ESTs C72771(E2215),AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109394	Strand	+
Start	305	End	6556
Name	OJ990621_09.0420.C2.o3.np	Method	AAT/NAP
Start	2766	End	6179
GI	7248394	Score	1134
Exons	2766..2809, 4742..4875, 5143..6179		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence;		

putative pol polyprotein with a reverse transcriptase domain
(AC006446)

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109394	Strand	+
Start	305	End	6556
Name	OJ990621_09.0420.C2.o1.gp	Method	AAT/GAP
Start	3650	End	4035
GI	uC-osflcyp033a04b1	Score	637
Exons	3650..4035		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109394	Strand	+
Start	305	End	6556
Name	OJ990621_09.0420.C2.o2.gs	Method	GENSCAN
Start	4037	End	6556
GI	none	Score	.4
Exons	4037..4113, 5042..5844, 6240..6556		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109395	Strand	-
Start	3579	End	5867
Name	OJ990621_09.0420.C2.o2.np	Method	AAT/NAP
Start	3579	End	5532
GI	4680186	Score	216
Exons	3579..3783, 5469..5532		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109395	Strand	-
Start	3579	End	5867
Name	OJ990621_09.0420.C2.o3.ts	Method	TBLASTX:Soybean
Start	4845	End	5210
GI	none	Score	124
Exons	4845..5069, 5076..5210		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109395	Strand	-
Start	3579	End	5867
Name	OJ990621_09.0420.C2.o1.tw	Method	TBLASTX:Wheat
Start	5007	End	5396
GI	none	Score	72
Exons	5007..5063, 5058..5390, 5066..5368, 5067..5396		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109395	Strand	-
Start	3579	End	5867
Name	OJ990621_09.0420.C2.o2.tm	Method	TBLASTX:Maize
Start	5061	End	5278
GI	none	Score	259
Exons	5061..5276, 5061..5261, 5066..5278		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109395	Strand	-
Start	3579	End	5867

Name	OJ990621_09.0420.C2.o1.tm	Method	TBLASTX:Maize
Start	5280	End	5738
GI	none	Score	503
Exons	5280..5738, 5280..5669, 5429..5737		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109395	Strand	-
Start	3579	End	5867
Name	OJ990621_09.0420.C2.o2.tw	Method	TBLASTX:Wheat
Start	5405	End	5810
GI	none	Score	200
Exons	5405..5692, 5430..5732, 5727..5810, 5738..5806		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109395	Strand	-
Start	3579	End	5867
Name	OJ990621_09.0420.C2.o1.ts	Method	TBLASTX:Soybean
Start	5427	End	5867
GI	none	Score	225
Exons	5427..5714, 5465..5602, 5709..5867, 5753..5866		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109396	Strand	-
Start	6047	End	6447
Name	OJ990621_09.0420.C2.o4.ts	Method	TBLASTX:Soybean
Start	6047	End	6447
GI	none	Score	93
Exons	6047..6133, 6049..6129, 6143..6178, 6146..6178, 6199..6282, 6200..6283, 6251..6445, 6295..6447		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109397	Strand	-
Start	7041	End	7406
Name	OJ990621_09.0420.C2.o4.tw	Method	TBLASTX:Wheat
Start	7041	End	7406
GI	none	Score	185
Exons	7041..7406		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109397	Strand	-
Start	7041	End	7406
Name	OJ990621_09.0420.C2.o5.ts	Method	TBLASTX:Soybean
Start	7062	End	7346
GI	none	Score	183
Exons	7062..7346		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109398	Strand	-
Start	7443	End	7876
Name	OJ990621_09.0420.C2.o3.tw	Method	TBLASTX:Wheat
Start	7443	End	7850
GI	none	Score	232
Exons	7443..7850, 7451..7816		

Seq. No.	51656	Seq. ID	OJ990621_09.0420.C2
Gene No.	109398	Strand	-
Start	7443	End	7876

Name	OJ990621_09.0420.C2.o2.ts	Method	TBLASTX:Soybean
Start	7626	End	7876
GI	none	Score	239
Exons	7626..7871, 7628..7798, 7835..7876		

Seq. No.	51657	Seq. ID	OJ990621_09.0420.C4
Gene No.	109399	Strand	+
Start	6137	End	9082
Name	OJ990621_09.0420.C4.o1.gp	Method	AAT/GAP
Start	5034	End	5415
GI	uC-osflcyp033a04b1	Score	639
Exons	5034..5415		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51657	Seq. ID	OJ990621_09.0420.C4
Gene No.	109399	Strand	+
Start	6137	End	9082
Name	OJ990621_09.0420.C4.o2.gs	Method	GENSCAN
Start	6137	End	9082
GI	none	Score	.77
Exons	6137..6287, 6501..6657, 6750..6796, 7250..7389, 7568..7649, 8398..8410, 8845..9082		

Seq. No.	51657	Seq. ID	OJ990621_09.0420.C4
Gene No.	109400	Strand	+
Start	10716	End	12263
Name	OJ990621_09.0420.C4.o5.np	Method	AAT/NAP
Start	10716	End	12263
GI	6056374	Score	209
Exons	10716..10945, 11280..11351, 11518..11637, 11938..12001, 12194..12263		
GI Descrip.	(AC009894) Similar to serine/threonine kinases [Arabidopsis thaliana]		

Seq. No.	51657	Seq. ID	OJ990621_09.0420.C4
Gene No.	109401	Strand	-
Start	1	End	9486
Name	OJ990621_09.0420.C4.o1.np	Method	AAT/NAP
Start	1	End	1389
GI	7248394	Score	543
Exons	1..23, 599..1389		
GI Descrip.	(AP001389) ESTs C97394 (C60113), AU075824 (R0165), D38985 (R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	51657	Seq. ID	OJ990621_09.0420.C4
Gene No.	109401	Strand	-
Start	1	End	9486
Name	OJ990621_09.0420.C4.o2.np	Method	AAT/NAP
Start	1	End	8854
GI	5852180	Score	412
Exons	1..74, 3715..4280, 5264..5320, 8831..8854		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	51657	Seq. ID	OJ990621_09.0420.C4
Gene No.	109401	Strand	-
Start	1	End	9486
Name	OJ990621_09.0420.C4.o4.np	Method	AAT/NAP
Start	6352	End	9486
GI	7340868	Score	43
Exons	6352..6394, 7548..7706, 9450..9486		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51657	Seq. ID	OJ990621_09.0420.C4
Gene No.	109401	Strand	-
Start	1	End	9486
Name	OJ990621_09.0420.C4.o3.np	Method	AAT/NAP
Start	6792	End	7519
GI	7248393	Score	424
Exons	6792..7139, 7215..7519		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	51657	Seq. ID	OJ990621_09.0420.C4
Gene No.	109402	Strand	-
Start	10737	End	10992
Name	OJ990621_09.0420.C4.o1.ts	Method	TBLASTX:Soybean
Start	847	End	1245
GI	none	Score	195
Exons	847..1245		

Seq. No.	51657	Seq. ID	OJ990621_09.0420.C4
Gene No.	109402	Strand	-
Start	10737	End	10992
Name	OJ990621_09.0420.C4.o3.gs	Method	GENSCAN
Start	10737	End	10992
GI	none	Score	.72
Exons	10737..10778, 10875..10992		

Seq. No.	51658	Seq. ID	OJ990621_09.0420.C5
Gene No.	109403	Strand	+
Start	59	End	787
Name	OJ990621_09.0420.C5.o1.gs	Method	GENSCAN
Start	59	End	787
GI	none	Score	.66
Exons	59..78, 713..787		

Seq. No.	51659	Seq. ID	OJ990621_09.0420.C6
Gene No.	109404	Strand	+
Start	1	End	4048
Name	OJ990621_09.0420.C6.o1.np	Method	AAT/NAP
Start	1	End	4048
GI	4335720	Score	119
Exons	1..38, 1183..1496, 4019..4048		
GI Descrip.	(AC006248) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	51659	Seq. ID	OJ990621_09.0420.C6
Gene No.	109404	Strand	+
Start	1	End	4048
Name	OJ990621_09.0420.C6.o1.gs	Method	GENSCAN
Start	162	End	3816

GI none Score .52
Exons 162..214, 1482..1621, 1647..1789, 1889..2655, 2737..3016, 3442..3816

Seq. No. 51660 Seq. ID OJ990621_09.0420.C7
Gene No. 109405 Strand +
Start 1 End 2843
Name OJ990621_09.0420.C7.o1.np Method AAT/NAP
Start 1 End 1901
GI 7340881 Score 333
Exons 1..225, 1614..1747, 1853..1901
GI Descrip. (AP001551) hypothetical protein [Oryza sativa]

Seq. No. 51660 Seq. ID OJ990621_09.0420.C7
Gene No. 109405 Strand +
Start 1 End 2843
Name OJ990621_09.0420.C7.o1.gs Method GENSCAN
Start 38 End 2843
GI none Score .5
Exons 38..185, 2064..2123, 2256..2305, 2419..2455, 2626..2843

Seq. No. 51660 Seq. ID OJ990621_09.0420.C7
Gene No. 109406 Strand -
Start 469 End 556
Name OJ990621_09.0420.C7.o1.gp Method AAT/GAP
Start 469 End 556
GI 1631463 Score 80
Exons 469..556
GI Descrip. 4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes

Seq. No. 51661 Seq. ID OJ990621_09.0420.C8
Gene No. 109407 Strand +
Start 656 End 5855
Name OJ990621_09.0420.C8.o3.np Method AAT/NAP
Start 656 End 5855
GI 5852180 Score 599
Exons 656..696, 4225..4291, 5276..5398, 5449..5855
GI Descrip. (AL117265) zhb00010.1 [Oryza sativa]

Seq. No. 51661 Seq. ID OJ990621_09.0420.C8
Gene No. 109408 Strand -
Start 1 End 2191
Name OJ990621_09.0420.C8.o1.np Method AAT/NAP
Start 1 End 2191
GI 4680179 Score 2031
Exons 1..1078, 1112..2191
GI Descrip. (AF111709) polyprotein [Oryza sativa subsp. indica]

Seq. No. 51661 Seq. ID OJ990621_09.0420.C8
Gene No. 109409 Strand -
Start 2444 End 4522
Name OJ990621_09.0420.C8.o2.gs Method GENSCAN
Start 2444 End 4397
GI none Score .74
Exons 2444..3253, 4353..4397

Seq. No.	51661	Seq. ID	OJ990621_09.0420.C8
Gene No.	109409	Strand	-
Start	2444	End	4522
Name	OJ990621_09.0420.C8.o1.gp	Method	AAT/GAP
Start	4140	End	4522
GI	uC-osflcyp033a04b1	Score	692
Exons	4140..4522		
GI Descrip.	'6016845/dbj AP000570.1 AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	51661	Seq. ID	OJ990621_09.0420.C8
Gene No.	109410	Strand	-
Start	5362	End	5838
Name	OJ990621_09.0420.C8.o1.tm	Method	TBLASTX:Maize
Start	8	End	409
GI	none	Score	71
Exons	8..409, 15..179		

Seq. No.	51661	Seq. ID	OJ990621_09.0420.C8
Gene No.	109410	Strand	-
Start	5362	End	5838
Name	OJ990621_09.0420.C8.o1.tw	Method	TBLASTX:Wheat
Start	32	End	518
GI	none	Score	258
Exons	32..409, 75..518, 464..514		

Seq. No.	51661	Seq. ID	OJ990621_09.0420.C8
Gene No.	109410	Strand	-
Start	5362	End	5838
Name	OJ990621_09.0420.C8.o3.tw	Method	TBLASTX:Wheat
Start	614	End	1051
GI	none	Score	68
Exons	614..655, 683..796, 684..797, 842..1051, 843..995		

Seq. No.	51661	Seq. ID	OJ990621_09.0420.C8
Gene No.	109410	Strand	-
Start	5362	End	5838
Name	OJ990621_09.0420.C8.o3.tm	Method	TBLASTX:Maize
Start	734	End	1087
GI	none	Score	188
Exons	734..1087		

Seq. No.	51661	Seq. ID	OJ990621_09.0420.C8
Gene No.	109410	Strand	-
Start	5362	End	5838
Name	OJ990621_09.0420.C8.o4.tw	Method	TBLASTX:Wheat
Start	1370	End	1600
GI	none	Score	175
Exons	1370..1600		

Seq. No.	51661	Seq. ID	OJ990621_09.0420.C8
Gene No.	109410	Strand	-
Start	5362	End	5838
Name	OJ990621_09.0420.C8.o2.tm	Method	TBLASTX:Maize
Start	1415	End	1720
GI	none	Score	86

Exons 1415..1720, 1590..1706

Seq. No. 51661
Gene No. 109410
Start 5362
Name OJ990621_09.0420.C8.o2.tw
Start 1601
GI none
Exons 1601..1963, 1602..1961

Seq. ID OJ990621_09.0420.C8
Strand -
End 5838
Method TBLASTX:Wheat
End 1963
Score 145

Seq. No. 51661
Gene No. 109410
Start 5362
Name OJ990621_09.0420.C8.o3.gs
Start 5362
GI none
Exons 5362..5838

Seq. ID OJ990621_09.0420.C8
Strand -
End 5838
Method GENSCAN
End 5838
Score .54

Seq. No. 51662
Gene No. 109411
Start 1
Name OJ990621_09.0420.C9.o1.np
Start 1
GI 93144
Exons 1..464, 3083..3183, 3216..3305

Seq. ID OJ990621_09.0420.C9
Strand +
End 3305
Method AAT/NAP
End 3305
Score 89

GI Descrip. hypothetical protein - suid herpesvirus 1 (strain
Indiana-Funkhuser or Becker) gi|334068 (M57505) ORF2
[Pseudorabies virus]

Seq. No. 51662
Gene No. 109411
Start 1
Name OJ990621_09.0420.C9.o1.gs
Start 1583
GI none
Exons 1583..1606, 1869..2055, 2241..2504

Seq. ID OJ990621_09.0420.C9
Strand +
End 3305
Method GENSCAN
End 2504
Score .58

Seq. No. 51663
Gene No. 109412
Start 2364
Name OJ990621_09.0420.C10.o1.np
Start 2364
GI 4680186
Exons 2364..2567
GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. ID OJ990621_09.0420.C10
Strand +
End 2567
Method AAT/NAP
End 2567
Score 193

Seq. No. 51663
Gene No. 109413
Start 2928
Name OJ990621_09.0420.C10.o2.gs
Start 2928
GI none
Exons 2928..3068

Seq. ID OJ990621_09.0420.C10
Strand +
End 3068
Method GENSCAN
End 3068
Score .88

Seq. No. 51663
Gene No. 109414
Start 248

Seq. ID OJ990621_09.0420.C10
Strand -
End 2373

Name	OJ990621_09.0420.C10.o1.gs	Method	GENSCAN
Start	248	End	2373
GI	none	Score	.5
Exons	248..756, 775..949, 1267..1348, 2231..2373		

Seq. No.	51664	Seq. ID	OJ990621_09.0420.C11
Gene No.	109415	Strand	+
Start	1	End	112
Name	OJ990621_09.0420.C11.o1.np	Method	AAT/NAP
Start	1	End	112
GI	4680186	Score	148
Exons	1..112		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51664	Seq. ID	OJ990621_09.0420.C11
Gene No.	109416	Strand	-
Start	498	End	783
Name	OJ990621_09.0420.C11.o1.gs	Method	GENSCAN
Start	498	End	602
GI	none	Score	.71
Exons	498..602		

Seq. No.	51664	Seq. ID	OJ990621_09.0420.C11
Gene No.	109416	Strand	-
Start	498	End	783
Name	OJ990621_09.0420.C11.o2.np	Method	AAT/NAP
Start	501	End	783
GI	6907087	Score	144
Exons	501..602, 678..783		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51665	Seq. ID	OJ990621_09.0420.C12
Gene No.	109417	Strand	-
Start	751	End	1094
Name	OJ990621_09.0420.C12.o1.gs	Method	GENSCAN
Start	751	End	1094
GI	none	Score	.68
Exons	751..894, 975..1094		

Seq. No.	51666	Seq. ID	OJ990621_09.0420.C13
Gene No.	109418	Strand	+
Start	338	End	3097
Name	OJ990621_09.0420.C13.o1.gs	Method	GENSCAN
Start	338	End	3097
GI	none	Score	.6
Exons	338..691, 939..1175, 2110..2174, 2270..2341, 2374..2533, 2972..3097		

Seq. No.	51666	Seq. ID	OJ990621_09.0420.C13
Gene No.	109419	Strand	+
Start	3535	End	5066
Name	OJ990621_09.0420.C13.o2.np	Method	AAT/NAP
Start	3535	End	5066
GI	5852175	Score	98
Exons	3535..3648, 4279..4310, 5035..5066		

GI Descrip. (AL117265) zhb0005.1 [Oryza sativa]

Seq. No.	51666	Seq. ID	OJ990621_09.0420.C13
Gene No.	109420	Strand	-
Start	1173	End	1539
Name	OJ990621_09.0420.C13.o1.ts	Method	TBLASTX:Soybean
Start	1167	End	1412
GI	none	Score	45
Exons	1167..1412, 1171..1200, 1240..1410, 1245..1412		

Seq. No.	51666	Seq. ID	OJ990621_09.0420.C13
Gene No.	109420	Strand	-
Start	1173	End	1539
Name	OJ990621_09.0420.C13.o1.np	Method	AAT/NAP
Start	1173	End	1539
GI	4544372	Score	124
Exons	1173..1539		

GI Descrip. (AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No.	51667	Seq. ID	OJ990621_09.0420.C14
Gene No.	109421	Strand	+
Start	1	End	1496
Name	OJ990621_09.0420.C14.o1.np	Method	AAT/NAP
Start	1	End	1496
GI	5852175	Score	109
Exons	1..235, 1368..1496		

GI Descrip. (AL117265) zhb0005.1 [Oryza sativa]

Seq. No.	51667	Seq. ID	OJ990621_09.0420.C14
Gene No.	109422	Strand	-
Start	1091	End	1422
Name	OJ990621_09.0420.C14.o1.gs	Method	GENSCAN
Start	1091	End	1422
GI	none	Score	.81
Exons	1091..1213, 1312..1422		

Seq. No.	51668	Seq. ID	OJ990621_09.0420.C15
Gene No.	109423	Strand	+
Start	1173	End	1275
Name	OJ990621_09.0420.C15.o2.np	Method	AAT/NAP
Start	1173	End	1275
GI	5852175	Score	58
Exons	1173..1275		

GI Descrip. (AL117265) zhb0005.1 [Oryza sativa]

Seq. No.	51668	Seq. ID	OJ990621_09.0420.C15
Gene No.	109424	Strand	-
Start	1	End	751
Name	OJ990621_09.0420.C15.o1.np	Method	AAT/NAP
Start	1	End	751
GI	4544372	Score	340
Exons	1..751		

GI Descrip. (AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No.	51668	Seq. ID	OJ990621_09.0420.C15
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Gene No.	109425	Strand	-
Start	2138	End	2407
Name	OJ990621_09.0420.C15.o1.tw	Method	TBLASTX:Wheat
Start	81	End	431
GI	none	Score	59
Exons	81..269, 255..359, 396..431		
Seq. No.	51668	Seq. ID	OJ990621_09.0420.C15
Gene No.	109425	Strand	-
Start	2138	End	2407
Name	OJ990621_09.0420.C15.o1.ts	Method	TBLASTX:Soybean
Start	141	End	539
GI	none	Score	231
Exons	141..539		
Seq. No.	51668	Seq. ID	OJ990621_09.0420.C15
Gene No.	109425	Strand	-
Start	2138	End	2407
Name	OJ990621_09.0420.C15.o1.tm	Method	TBLASTX:Maize
Start	162	End	542
GI	none	Score	94
Exons	162..386, 384..542		
Seq. No.	51668	Seq. ID	OJ990621_09.0420.C15
Gene No.	109425	Strand	-
Start	2138	End	2407
Name	OJ990621_09.0420.C15.o2.gs	Method	GENSCAN
Start	2138	End	2407
GI	none	Score	.66
Exons	2138..2407		
Seq. No.	51669	Seq. ID	OJ990621_09.0420.C16
Gene No.	109426	Strand	+
Start	1	End	596
Name	OJ990621_09.0420.C16.o1.np	Method	AAT/NAP
Start	1	End	286
GI	5042447	Score	391
Exons	1..286		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	51669	Seq. ID	OJ990621_09.0420.C16
Gene No.	109426	Strand	+
Start	1	End	596
Name	OJ990621_09.0420.C16.o1.gs	Method	GENSCAN
Start	78	End	596
GI	none	Score	.6
Exons	78..239, 480..596		
Seq. No.	51669	Seq. ID	OJ990621_09.0420.C16
Gene No.	109427	Strand	-
Start	1	End	1145
Name	OJ990621_09.0420.C16.o2.np	Method	AAT/NAP
Start	1	End	1145
GI	6721561	Score	134
Exons	1..100, 1055..1145		
GI Descrip.	(AP001073) EST AU082058(C12976). corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976)
corresponds to a region of the predicted gene.; hypothetical
protein [Oryza sativa]

Seq. No.	51669	Seq. ID	OJ990621_09.0420.C16
Gene No.	109427	Strand	-
Start	1	End	1145
Name	OJ990621_09.0420.C16.o1.tm	Method	TBLASTX:Maize
Start	45	End	293
GI	none	Score	262
Exons	45..293, 53..286		

Seq. No.	51669	Seq. ID	OJ990621_09.0420.C16
Gene No.	109427	Strand	-
Start	1	End	1145
Name	OJ990621_09.0420.C16.o1.tw	Method	TBLASTX:Wheat
Start	50	End	326
GI	none	Score	247
Exons	50..286, 63..293, 141..326		

Seq. No.	51670	Seq. ID	OJ990621_09.0420.C17
Gene No.	109428	Strand	+
Start	37	End	487
Name	OJ990621_09.0420.C17.o1.gs	Method	GENSCAN
Start	37	End	487
GI	none	Score	.5
Exons	37..255, 362..487		

Seq. No.	51671	Seq. ID	OJ990621_09.0420.C18
Gene No.	109429	Strand	+
Start	180	End	3778
Name	OJ990621_09.0420.C18.o1.np	Method	AAT/NAP
Start	180	End	3778
GI	7248394	Score	351
Exons	180..358, 2488..2669, 2937..3104, 3581..3778		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15011 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	51671	Seq. ID	OJ990621_09.0420.C18
Gene No.	109429	Strand	+
Start	180	End	3778
Name	OJ990621_09.0420.C18.o1.gs	Method	GENSCAN
Start	662	End	983
GI	none	Score	.79
Exons	662..773, 880..983		

Seq. No.	51671	Seq. ID	OJ990621_09.0420.C18
Gene No.	109429	Strand	+
Start	180	End	3778
Name	OJ990621_09.0420.C18.o2.np	Method	AAT/NAP
Start	1467	End	3778
GI	4680180	Score	200
Exons	1467..1496, 3130..3642, 3745..3778		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51671	Seq. ID	OJ990621_09.0420.C18
Gene No.	109429	Strand	+
Start	180	End	3778
Name	OJ990621_09.0420.C18.o2.gs	Method	GENSCAN
Start	2501	End	3669
GI	none	Score	.72
Exons	2501..2707, 2723..2999, 3257..3669		

Seq. No.	51671	Seq. ID	OJ990621_09.0420.C18
Gene No.	109429	Strand	+
Start	180	End	3778
Name	OJ990621_09.0420.C18.o2.ts	Method	TBLASTX:Soybean
Start	2639	End	2989
GI	none	Score	140
Exons	2639..2863, 2650..2829, 2870..2989		

Seq. No.	51671	Seq. ID	OJ990621_09.0420.C18
Gene No.	109429	Strand	+
Start	180	End	3778
Name	OJ990621_09.0420.C18.o1.tw	Method	TBLASTX:Wheat
Start	2801	End	3103
GI	none	Score	86
Exons	2801..2857, 2806..2847, 2852..3103, 2860..3093, 2861..3100		

Seq. No.	51671	Seq. ID	OJ990621_09.0420.C18
Gene No.	109429	Strand	+
Start	180	End	3778
Name	OJ990621_09.0420.C18.o1.tm	Method	TBLASTX:Maize
Start	2855	End	3105
GI	none	Score	297
Exons	2855..3103, 2860..3105		

Seq. No.	51671	Seq. ID	OJ990621_09.0420.C18
Gene No.	109429	Strand	+
Start	180	End	3778
Name	OJ990621_09.0420.C18.o1.ts	Method	TBLASTX:Soybean
Start	2996	End	3468
GI	none	Score	93
Exons	2996..3028, 3105..3209, 3115..3195, 3216..3383, 3217..3468		

Seq. No.	51671	Seq. ID	OJ990621_09.0420.C18
Gene No.	109429	Strand	+
Start	180	End	3778
Name	OJ990621_09.0420.C18.o2.tw	Method	TBLASTX:Wheat
Start	3118	End	3501
GI	none	Score	63
Exons	3118..3192, 3232..3501		

Seq. No.	51672	Seq. ID	OJ990621_09.0420.C19
Gene No.	109430	Strand	-
Start	72	End	1345
Name	OJ990621_09.0420.C19.o1.np	Method	AAT/NAP
Start	72	End	1298
GI	6063554	Score	128
Exons	72..242, 1189..1298		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464)		

correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]

Seq. No.	51672	Seq. ID	OJ990621_09.0420.C19
Gene No.	109430	Strand	-
Start	72	End	1345
Name	OJ990621_09.0420.C19.o1.gs	Method	GENSCAN
Start	1090	End	1345
GI	none	Score	.6
Exons	1090..1173, 1205..1345		

Seq. No.	51673	Seq. ID	OJ990621_09.0420.C21
Gene No.	109431	Strand	+
Start	1	End	6365
Name	OJ990621_09.0420.C21.o1.np	Method	AAT/NAP
Start	1	End	865
GI	6907087	Score	248
Exons	1..223, 764..865		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51673	Seq. ID	OJ990621_09.0420.C21
Gene No.	109431	Strand	+
Start	1	End	6365
Name	OJ990621_09.0420.C21.o1.gs	Method	GENSCAN
Start	121	End	6222
GI	none	Score	.44
Exons	121..223, 267..335, 764..845, 3999..4186, 4527..4677, 4932..5012, 6164..6222		

Seq. No.	51673	Seq. ID	OJ990621_09.0420.C21
Gene No.	109431	Strand	+
Start	1	End	6365
Name	OJ990621_09.0420.C21.o3.np	Method	AAT/NAP
Start	4411	End	6365
GI	4680186	Score	198
Exons	4411..4440, 6181..6365		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51673	Seq. ID	OJ990621_09.0420.C21
Gene No.	109432	Strand	-
Start	1261	End	1488
Name	OJ990621_09.0420.C21.o2.np	Method	AAT/NAP
Start	1261	End	1488
GI	4680186	Score	118
Exons	1261..1488		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	51673	Seq. ID	OJ990621_09.0420.C21
Gene No.	109433	Strand	-
Start	6755	End	9343
Name	OJ990621_09.0420.C21.o2.gs	Method	GENSCAN
Start	6755	End	9343
GI	none	Score	.63
Exons	6755..6859, 7323..7503, 7590..7719, 7945..8164, 9199..9343		

Seq. No.	51673	Seq. ID	OJ990621_09.0420.C21
Gene No.	109433	Strand	-
Start	6755	End	9343
Name	OJ990621_09.0420.C21.o4.np	Method	AAT/NAP
Start	6758	End	8495
GI	6907087	Score	914
Exons	6758..6859, 7401..8072, 8118..8495		
GI Descrip.	(AP001129) ESTs C72771(E2215), AU082313(E2215) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51674	Seq. ID	OJ990621_09.0420.C22
Gene No.	109434	Strand	+
Start	1	End	3135
Name	OJ990621_09.0420.C22.o1.np	Method	AAT/NAP
Start	1	End	813
GI	7488857	Score	284
Exons	1..47, 209..813		
GI Descrip.	hypothetical protein - fava bean (fragment) gi 2522230 dbj BAA22788.1 (AB007467) retrotransposon-like gene; the first amino acid was determined to be leucine [Vicia faba]		

Seq. No.	51674	Seq. ID	OJ990621_09.0420.C22
Gene No.	109434	Strand	+
Start	1	End	3135
Name	OJ990621_09.0420.C22.o1.gs	Method	GENSCAN
Start	202	End	3135
GI	none	Score	.65
Exons	202..819, 867..1043, 1672..1941, 2620..3135		

Seq. No.	51675	Seq. ID	OJ990621_09.0420.C23
Gene No.	109435	Strand	+
Start	390	End	572
Name	OJ990621_09.0420.C23.o1.gs	Method	GENSCAN
Start	390	End	572
GI	none	Score	.89
Exons	390..572		

Seq. No.	51676	Seq. ID	OJ990621_09.0420.C24
Gene No.	109436	Strand	+
Start	5	End	466
Name	OJ990621_09.0420.C24.o1.gs	Method	GENSCAN
Start	5	End	466
GI	none	Score	.81
Exons	5..466		

Seq. No.	51677	Seq. ID	OJ990621_09.0420.C25
Gene No.	109437	Strand	-
Start	169	End	1106
Name	OJ990621_09.0420.C25.o1.gs	Method	GENSCAN
Start	169	End	1106
GI	none	Score	.62
Exons	169..302, 1039..1106		

Seq. No.	51678	Seq. ID	OJ990621_09.0420.C27
Gene No.	109438	Strand	+
Start	273	End	1290

Name	OJ990621_09.0420.C27.o1.np	Method	AAT/NAP
Start	273	End	1290
GI	6983860	Score	46
Exons	273..430, 1271..1290		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	51679	Seq. ID	OJ990621_09.0420.C28
Gene No.	109439	Strand	-
Start	1546	End	3141
Name	OJ990621_09.0420.C28.o1.np	Method	AAT/NAP
Start	1546	End	3141
GI	6983860	Score	2473
Exons	1546..3141		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	51679	Seq. ID	OJ990621_09.0420.C28
Gene No.	109440	Strand	-
Start	3844	End	5179
Name	OJ990621_09.0420.C28.o3.tm	Method	TBLASTX:Maize
Start	1536	End	1767
GI	none	Score	42
Exons	1536..1586, 1536..1577, 1570..1686, 1570..1767		

Seq. No.	51679	Seq. ID	OJ990621_09.0420.C28
Gene No.	109440	Strand	-
Start	3844	End	5179
Name	OJ990621_09.0420.C28.o3.tw	Method	TBLASTX:Wheat
Start	1591	End	1924
GI	none	Score	55
Exons	1591..1923, 1784..1831, 1853..1924		

Seq. No.	51679	Seq. ID	OJ990621_09.0420.C28
Gene No.	109440	Strand	-
Start	3844	End	5179
Name	OJ990621_09.0420.C28.o1.tm	Method	TBLASTX:Maize
Start	1786	End	2370
GI	none	Score	93
Exons	1786..2211, 1795..2091, 1910..2212, 2209..2370, 2216..2362, 2218..2364		

Seq. No.	51679	Seq. ID	OJ990621_09.0420.C28
Gene No.	109440	Strand	-
Start	3844	End	5179
Name	OJ990621_09.0420.C28.o1.tw	Method	TBLASTX:Wheat
Start	1924	End	2550
GI	none	Score	358
Exons	1924..2550, 1925..2548		

Seq. No.	51679	Seq. ID	OJ990621_09.0420.C28
Gene No.	109440	Strand	-
Start	3844	End	5179
Name	OJ990621_09.0420.C28.o2.tm	Method	TBLASTX:Maize
Start	2419	End	2710
GI	none	Score	284
Exons	2419..2709, 2423..2710		

Seq. No.	51679	Seq. ID	OJ990621_09.0420.C28
Gene No.	109440	Strand	-
Start	3844	End	5179
Name	OJ990621_09.0420.C28.o1.ts	Method	TBLASTX:Soybean
Start	2508	End	2769
GI	none	Score	178
Exons	2508..2726; 2509..2769, 2510..2767		

Seq. No.	51679	Seq. ID	OJ990621_09.0420.C28
Gene No.	109440	Strand	-
Start	3844	End	5179
Name	OJ990621_09.0420.C28.o1.tc	Method	TBLASTX:Cress
Start	2533	End	2859
GI	none	Score	86
Exons	2533..2676, 2534..2674, 2683..2859		

Seq. No.	51679	Seq. ID	OJ990621_09.0420.C28
Gene No.	109440	Strand	-
Start	3844	End	5179
Name	OJ990621_09.0420.C28.o2.tw	Method	TBLASTX:Wheat
Start	2557	End	3093
GI	none	Score	372
Exons	2557..3093, 2558..3091		

Seq. No.	51679	Seq. ID	OJ990621_09.0420.C28
Gene No.	109440	Strand	-
Start	3844	End	5179
Name	OJ990621_09.0420.C28.o2.np	Method	AAT/NAP
Start	3844	End	5179
GI	6063554	Score	116
Exons	3844..4019, 5047..5179		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	51679	Seq. ID	OJ990621_09.0420.C28
Gene No.	109440	Strand	-
Start	3844	End	5179
Name	OJ990621_09.0420.C28.o2.gs	Method	GENSCAN
Start	4598	End	5121
GI	none	Score	.65
Exons	4598..4662, 5028..5121		

Seq. No.	51680	Seq. ID	OJ990621_09.0420.C29
Gene No.	109441	Strand	-
Start	1	End	2038
Name	OJ990621_09.0420.C29.o1.np	Method	AAT/NAP
Start	1	End	2038
GI	4680179	Score	2314
Exons	1..1581, 1996..2038		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51680	Seq. ID	OJ990621_09.0420.C29
Gene No.	109441	Strand	-
Start	1	End	2038
Name	OJ990621_09.0420.C29.o1.tw	Method	TBLASTX:Wheat

Start	3	End	580
GI	none	Score	181
Exons	3..62, 62..580, 65..517, 72..524		

Seq. No.	51680	Seq. ID	OJ990621_09.0420.C29
Gene No.	109441	Strand	-
Start	1	End	2038
Name	OJ990621_09.0420.C29.o3.tm	Method	TBLASTX:Maize
Start	3	End	299
GI	none	Score	57
Exons	3..62, 6..68, 62..298, 78..299		

Seq. No.	51680	Seq. ID	OJ990621_09.0420.C29
Gene No.	109441	Strand	-
Start	1	End	2038
Name	OJ990621_09.0420.C29.o1.gs	Method	GENSCAN
Start	35	End	1453
GI	none	Score	.53
Exons	35..1453		

Seq. No.	51680	Seq. ID	OJ990621_09.0420.C29
Gene No.	109441	Strand	-
Start	1	End	2038
Name	OJ990621_09.0420.C29.o2.tm	Method	TBLASTX:Maize
Start	305	End	622
GI	none	Score	248
Exons	305..622, 309..611		

Seq. No.	51680	Seq. ID	OJ990621_09.0420.C29
Gene No.	109441	Strand	-
Start	1	End	2038
Name	OJ990621_09.0420.C29.o1.ts	Method	TBLASTX:Soybean
Start	539	End	799
GI	none	Score	161
Exons	539..799, 540..788		

Seq. No.	51680	Seq. ID	OJ990621_09.0420.C29
Gene No.	109441	Strand	-
Start	1	End	2038
Name	OJ990621_09.0420.C29.o3.tw	Method	TBLASTX:Wheat
Start	586	End	1126
GI	none	Score	121
Exons	586..834, 587..1126, 591..944, 632..970		

Seq. No.	51680	Seq. ID	OJ990621_09.0420.C29
Gene No.	109441	Strand	-
Start	1	End	2038
Name	OJ990621_09.0420.C29.o4.tm	Method	TBLASTX:Maize
Start	623	End	970
GI	none	Score	158
Exons	623..943, 638..970		

Seq. No.	51680	Seq. ID	OJ990621_09.0420.C29
Gene No.	109441	Strand	-
Start	1	End	2038
Name	OJ990621_09.0420.C29.o1.tm	Method	TBLASTX:Maize
Start	1154	End	1921

GI	none	Score	195
Exons	1154..1507, 1161..1502, 1604..1909, 1604..1921, 1662..1916		

Seq. No.	51680	Seq. ID	OJ990621_09.0420.C29
Gene No.	109441	Strand	-
Start	1	End	2038
Name	OJ990621_09.0420.C29.o2.tw	Method	TBLASTX:Wheat
Start	1154	End	1964
GI	none	Score	225
Exons	1154..1504, 1154..1579, 1161..1577, 1602..1964, 1604..1963		

Seq. No.	51680	Seq. ID	OJ990621_09.0420.C29
Gene No.	109441	Strand	-
Start	1	End	2038
Name	OJ990621_09.0420.C29.o2.ts	Method	TBLASTX:Soybean
Start	1325	End	1966
GI	none	Score	158
Exons	1325..1573, 1739..1966		

Seq. No.	51681	Seq. ID	OJ990621_09.0420.C30
Gene No.	109442	Strand	-
Start	235	End	2055
Name	OJ990621_09.0420.C30.o1.gs	Method	GENSCAN
Start	235	End	2001
GI	none	Score	.5
Exons	235..965, 1009..1215, 1330..2001		

Seq. No.	51681	Seq. ID	OJ990621_09.0420.C30
Gene No.	109442	Strand	-
Start	235	End	2055
Name	OJ990621_09.0420.C30.o1.np	Method	AAT/NAP
Start	238	End	2055
GI	4680179	Score	2523
Exons	238..2055		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	51681	Seq. ID	OJ990621_09.0420.C30
Gene No.	109442	Strand	-
Start	235	End	2055
Name	OJ990621_09.0420.C30.o4.tw	Method	TBLASTX:Wheat
Start	283	End	616
GI	none	Score	128
Exons	283..615, 304..612, 347..616		

Seq. No.	51681	Seq. ID	OJ990621_09.0420.C30
Gene No.	109442	Strand	-
Start	235	End	2055
Name	OJ990621_09.0420.C30.o1.tm	Method	TBLASTX:Maize
Start	463	End	1008
GI	none	Score	245
Exons	463..903, 479..901, 901..1008, 920..997		

Seq. No.	51681	Seq. ID	OJ990621_09.0420.C30
Gene No.	109442	Strand	-
Start	235	End	2055
Name	OJ990621_09.0420.C30.o2.tw	Method	TBLASTX:Wheat
Start	616	End	1183

GI	none	Score	237
Exons	616..1008, 617..1012, 619..1041, 1007..1183		

Seq. No.	51681	Seq. ID	OJ990621_09.0420.C30
Gene No.	109442	Strand	-
Start	235	End	2055
Name	OJ990621_09.0420.C30.o3.tm	Method	TBLASTX:Maize
Start	1052	End	1343
GI	none	Score	48
Exons	1052..1342, 1056..1103, 1167..1343		

Seq. No.	51681	Seq. ID	OJ990621_09.0420.C30
Gene No.	109442	Strand	-
Start	235	End	2055
Name	OJ990621_09.0420.C30.o1.ts	Method	TBLASTX:Soybean
Start	1142	End	1402
GI	none	Score	86
Exons	1142..1399, 1142..1402		

Seq. No.	51681	Seq. ID	OJ990621_09.0420.C30
Gene No.	109442	Strand	-
Start	235	End	2055
Name	OJ990621_09.0420.C30.o1.tw	Method	TBLASTX:Wheat
Start	1190	End	1768
GI	none	Score	325
Exons	1190..1768, 1191..1757		

Seq. No.	51681	Seq. ID	OJ990621_09.0420.C30
Gene No.	109442	Strand	-
Start	235	End	2055
Name	OJ990621_09.0420.C30.o2.tm	Method	TBLASTX:Maize
Start	1748	End	2055
GI	none	Score	132
Exons	1748..2053, 1757..2053, 1761..2054, 1819..2055		

Seq. No.	51681	Seq. ID	OJ990621_09.0420.C30
Gene No.	109442	Strand	-
Start	235	End	2055
Name	OJ990621_09.0420.C30.o3.tw	Method	TBLASTX:Wheat
Start	1769	End	2055
GI	none	Score	272
Exons	1769..2053, 1770..2054, 1840..2055		

Seq. No.	51682	Seq. ID	OJ990331_04.0421.C1
Gene No.	109443	Strand	+
Start	1	End	758
Name	OJ990331_04.0421.C1.o1.np	Method	AAT/NAP
Start	1	End	758
GI	7340881	Score	109
Exons	1..36, 180..362, 468..503, 733..758		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51682	Seq. ID	OJ990331_04.0421.C1
Gene No.	109444	Strand	-
Start	372	End	758
Name	OJ990331_04.0421.C1.o1.gs	Method	GENSCAN
Start	372	End	692

GI	none	Score	.85
Exons	372..692		
Seq. No.	51682	Seq. ID	OJ990331_04.0421.C1
Gene No.	109444	Strand	-
Start	372	End	758
Name	OJ990331_04.0421.C1.o2.np	Method	AAT/NAP
Start	559	End	758
GI	4680204	Score	140
Exons	559..758		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	51683	Seq. ID	OJ990331_04.0421.C3
Gene No.	109445	Strand	+
Start	1	End	567
Name	OJ990331_04.0421.C3.o1.np	Method	AAT/NAP
Start	1	End	567
GI	7485454	Score	52
Exons	1..74, 468..567		
GI Descrip.	hypothetical protein F13M23.260 - Arabidopsis thaliana gi 4455255 emb CAB36754.1 (AL035523) putative protein [Arabidopsis thaliana] gi 7269362 emb CAB79421.1 (AL161562) putative protein [Arabidopsis thaliana]		
Seq. No.	51683	Seq. ID	OJ990331_04.0421.C3
Gene No.	109446	Strand	+
Start	468	End	654
Name	OJ990331_04.0421.C3.o1.gs	Method	GENSCAN
Start	468	End	654
GI	none	Score	.51
Exons	468..654		
Seq. No.	51684	Seq. ID	OJ990331_04.0421.C4
Gene No.	109447	Strand	+
Start	1	End	753
Name	OJ990331_04.0421.C4.o1.np	Method	AAT/NAP
Start	1	End	744
GI	4512670	Score	408
Exons	1..173, 251..744		
GI Descrip.	(AC006931) putative cytochrome P450 [Arabidopsis thaliana]		
Seq. No.	51684	Seq. ID	OJ990331_04.0421.C4
Gene No.	109447	Strand	+
Start	1	End	753
Name	OJ990331_04.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	104	End	438
GI	none	Score	93
Exons	104..172, 106..165, 248..304, 250..321, 310..438, 327..437		
Seq. No.	51684	Seq. ID	OJ990331_04.0421.C4
Gene No.	109447	Strand	+
Start	1	End	753
Name	OJ990331_04.0421.C4.o1.gs	Method	GENSCAN
Start	122	End	753
GI	none	Score	.96
Exons	122..177, 216..753		

Seq. No.	51684	Seq. ID	OJ990331_04.0421.C4
Gene No.	109447	Strand	+
Start	1	End	753
Name	OJ990331_04.0421.C4.o1.tc	Method	TBLASTX:Cress
Start	250	End	648
GI	none	Score	174
Exons	250..516, 333..506, 546..644, 547..648		

Seq. No.	51684	Seq. ID	OJ990331_04.0421.C4
Gene No.	109447	Strand	+
Start	1	End	753
Name	OJ990331_04.0421.C4.o1.ts	Method	TBLASTX:Soybean
Start	330	End	729
GI	none	Score	188
Exons	330..521, 331..522, 541..672, 549..698, 688..729		

Seq. No.	51685	Seq. ID	OJ990331_04.0421.C8
Gene No.	109448	Strand	+
Start	128	End	455
Name	OJ990331_04.0421.C8.o1.gs	Method	GENSCAN
Start	128	End	455
GI	none	Score	.87
Exons	128..256, 330..455		

Seq. No.	51685	Seq. ID	OJ990331_04.0421.C8
Gene No.	109448	Strand	+
Start	128	End	455
Name	OJ990331_04.0421.C8.o1.np	Method	AAT/NAP
Start	128	End	428
GI	7485454	Score	166
Exons	128..256, 330..428		
GI Descrip.	hypothetical protein F13M23.260 - Arabidopsis thaliana gi 4455255 emb CAB36754.1 (AL035523) putative protein [Arabidopsis thaliana] gi 7269362 emb CAB79421.1 (AL161562) putative protein [Arabidopsis thaliana]		

Seq. No.	51686	Seq. ID	OJ990331_04.0421.C9
Gene No.	109449	Strand	-
Start	1	End	733
Name	OJ990331_04.0421.C9.o1.np	Method	AAT/NAP
Start	1	End	715
GI	6721562	Score	1068
Exons	1..715		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi 6815087 dbj BAA90373.1 (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	51686	Seq. ID	OJ990331_04.0421.C9
Gene No.	109449	Strand	-
Start	1	End	733
Name	OJ990331_04.0421.C9.o1.gs	Method	GENSCAN
Start	10	End	733
GI	none	Score	.61
Exons	10..325, 349..733		

Seq. No.	51687	Seq. ID	OJ990331_04.0421.C14
Gene No.	109450	Strand	+
Start	1	End	792
Name	OJ990331_04.0421.C14.o1.np	Method	AAT/NAP
Start	1	End	792
GI	7340881	Score	111
Exons	1..229, 335..364, 751..792		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	51687	Seq. ID	OJ990331_04.0421.C14
Gene No.	109451	Strand	-
Start	239	End	792
Name	OJ990331_04.0421.C14.o1.gs	Method	GENSCAN
Start	239	End	633
GI	none	Score	.48
Exons	239..633		

Seq. No.	51687	Seq. ID	OJ990331_04.0421.C14
Gene No.	109451	Strand	-
Start	239	End	792
Name	OJ990331_04.0421.C14.o2.np	Method	AAT/NAP
Start	404	End	792
GI	4680204	Score	249
Exons	404..792		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	51687	Seq. ID	OJ990331_04.0421.C14
Gene No.	109451	Strand	-
Start	239	End	792
Name	OJ990331_04.0421.C14.o1.tw	Method	TBLASTX:Wheat
Start	494	End	790
GI	none	Score	36
Exons	494..526, 500..520, 530..667, 531..611, 671..790, 684..782		

Seq. No.	51688	Seq. ID	OJ990331_04.0421.C15
Gene No.	109452	Strand	+
Start	200	End	331
Name	OJ990331_04.0421.C15.o1.gs	Method	GENSCAN
Start	200	End	331
GI	none	Score	.45
Exons	200..331		

Seq. No.	51688	Seq. ID	OJ990331_04.0421.C15
Gene No.	109453	Strand	-
Start	1	End	5094
Name	OJ990331_04.0421.C15.o2.np	Method	AAT/NAP
Start	1	End	2348
GI	4680204	Score	501
Exons	1..85, 1712..2348		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	51688	Seq. ID	OJ990331_04.0421.C15
Gene No.	109453	Strand	-
Start	1	End	5094
Name	OJ990331_04.0421.C15.o1.np	Method	AAT/NAP
Start	674	End	5094
GI	4680183	Score	180